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1876-1976

Reel No.	Edition/Year
1	1st ed. (reprint of 1876) – 5th ed. (1894)
2	6th ed. (1899) – 7th ed. (1911)
3	8th ed. (1913) – 9th ed. (1915)
4	10th ed. (1919) – 11th ed. (1922)
5	12th ed. (1927) – 2 volumes

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12th ed. (1927)

2 volumes

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Dewey, Melvil

Decimal clasification and relativ index... 12th ed.

Lake Placid Club, N.Y.

1927

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Volume 1

To lern to clasify is in itself an education
Alex. Bain

Decimal Clasification

and

Relativ Index

for libraries and personal use

in arranjing for immediate reference
books, pamflets, clippings, pictures, manuscript notes
and other material

by

Melvil Dewey A M LL D

Edition 12
revized and enlarjd under direction of
Dorcas Fellows, Editor

Semicentennial edition

Volume 1: Tables

Forest Pres
Lake Placid Club
Essex co. N Y
1927

NrG

Matter of interest to uzers of this book wil be sent from time to time to recorded owners. Send prompt notis of any chanje in address givn on slip inserted opposit this note to

Forest Pres Lake Placid Club Essex co. N Y

Copyryt by

Melvil Dewey 1876; 1885; 1911; 1913; 1915; 1919
Library Bureau 1888; 1891; 1894; 1898
Lake Placid Club Education Foundation 1922; 1927

Modifying D C numbers

Confuzion and annoyance to thousands of uzers cauzd by printing unauthorized variations force the publishers to insist strictly on ful copyryt protection. Every library and individual uzer has, however, entire freedom to make such variations as he thinks he needs, under the simpl restrictions found necesary to protect the ryts of others. See p. 35²–38¹, Letter or simbol notations for chanjes or aditions.

Speling

Simpler spelings ar strongly recommended for jeneral adoption by both American and English filolojic associations, including nearly all prominent skolars in English now living. We regret prejudis which certain uzers wil feel against these chanjes, but after careful study of all objections urjd, we find the weight of skolarship, reazon and economy wholy in their favor, and feel compeld to bear a share of the prejudis which sum must endure before the great benefits of a rational orthografy can be secured.

We uze simpler forms recommended for jeneral adoption by the Simplified Spelling Board. Fuller information free from: Education Foundation, Lake Placid Club, Essex co. N Y

Besides these we also uze in the Introduction many other simpler forms. Most S S B rules and our aditions merely drop useless or misleading silent letters, with needed substitutes in a few cases; e. g. *j* for *g*, *dg* or *dge* when pronounst *j*; *y* for its sound in *by*, *my*, *reply* etc; *k* for *ck* or *ch*, medial or final, if pronounst *k*; *u* for *o* or *ou* pronounst as *u* in *us*; *f* for *ph* and *gh* in *phlegm* and *rough*, where we drop *g* and *o* and substitute *f*, speling *flem* and *ruf*.

Sum typografic errors hav doutless been overlookt, but we intend to spel as abuv.

Tables and Index alredy set in old speling wil not be chanjed til re-set.

See, at end of Introduction, p. 49–63, summary of compeling reazons for making these chanjes, and code of brief rules. Read them before criticizing our shorter and much better speling.

EXPLANATION

This Clasification divides knowlej into 9 main clases numberd 1 to 9. Cyclopedias, periodicals etc. so jeneral as to belong to *no* one of these clases ar markt 0 (naught) and form a 10th clas. Each clas is similarly separated into 9 divisions, jeneral works belonging to *no* division having 0 in place of division number. Divisions ar similarly divided into 9 sections. This process is repeated as often as necesary. Thus 512 means clas 5 (Pure syence), division 1 (Mathematics), section 2 (Aljebra), and every aljebra is numberd 512.

Books on shelvs and cards in a clast catalog ar arranjed in simpl numeric order, all clas numbers being regarded as decimals. These Tables sho order of subjects. Thus 512 Aljebra follows 511 Arithmetic and precedes 513 Jeometry. Since each subject has a definit number, all books on any subject stand together.

Summaries 1st summary shows the 10 clases. 2d shows the 9 divisions of each clas, and is useful as a 1-paje birdseye view of whole skeme. Then follo 10 pajes, 1 for each clas, giving the 9 sections of each of its 9 divisions, and showing scope of the clas on a singl paje.

Tables These 3 summaries ar followd by ful Clasification Tables, which present in numeric order all clases, divisions, sections and subsections. Sinonimus terms, exampls, brief notes, dates and cachwords ar often aded to simpl heds to giv fuller and clearer idea of scope of each number. Therefore all references to numbers shud be lookt up in *ful Tables*, never in Summaries, which ar in effect a contents table of the ful Clasification.

Index After the Tables an alfabetic Index of all heds givn in Tables refers by clas number of each to its exact place in Tables. This Index includes also sinonims and many other entries likely to help a reader find his subject eazily. Even a uzer who knows just where to turn to his subject in Tables, may, by consulting the Index, be put on trak of valuabl allyd matter which he wud otherwize overlook.

Ful explanations Ilustrations and sugjestions for numerus applications of this sistem, and ful explanations of its nemonic and other important features ar givn in the Introduction on following pajes.

1927

Decimal Clasification and Relativ Index

Net prices; postpaid

Edition 12 This is the ful clasification of 1243 pajes: i. e. introduction 67, summaries 12, jeneral works 43, filosofy 11, relijion 27, sociology 60, filolojy 11, pure syence 57, useful arts 250, fine arts 30, literature 44, history 137, followd by alfabetic index of 467 pajes, 43,000 heds

Price: 2v. in 1, ¼ lether, $11; 2v. (v. 1, Tables; v. 2, Relativ Subject Index) limp fabrikoid, $12 (sold separately $6 each; unbound $5 each). Denison quik reference tabs for either tables or index (to order) 50 cents extra; for both tables and index $1

Prices compared with erlier editions ar much les than pro rata increase for size and increast cost of printing

Old editions Those wishing to buy or sel old editions at reduced prices can uzually do so by writing to Forest Pres, which furnishes, without charj, addresses thru which such purchase or sale may be made. *Do not send books or money*

Short or Abridged D C, ed. 3, 1921 For small and slowly growing libraries. 184 pajes, containing explanation of sistem, sugjestions to clasifyers, annotated tables and index of 13,000 heds. The short numbers can be chanjed to ful ones without other alteration than ading extra figures from the ful tables. Cloth $2

Outline (or Primer) D C, 1921 For smallest libraries. 99 pajes, containing same explanation and instructions to clasifyers as in *Short*, 29 pajes of annotated tables, and index of about 6000 topics most useful to clasifyers of very small libraries. Cloth $1, paper 50c

D C Sections 12 pajes, no index. Singl copies 10c. Discounts: 20% for 10; 30% for 100; 50% for 1000 or more. This givs tables of 10 Clases, 100 Divisions and 1000 Sections in a chartlike Summary

D C Divisions 2 pajes. Charts of 10 Clases and 100 Divisions. Singl copies 5c; 10 copies 25c; 100 copies $1.50

D C Description Ful explanation of plan and uses, with chart of 10 Clases and 100 Divisions, and 17 sampl pajes from varius tipical subjects. Singl copies free. $5 a 100

Extracts 651 Offis economy, 658 Business manajment, 331 Labor and capital; 1924. 56 pajes. Paper $1; 5 or more copies for clerical or clas use only, ½ price

Revisions Typ is kept standing and editors ar constantly at work on sugjested aditions and improvements sent direct or thru the international D C committees from many cuntries where the sistem is uzed, while the cordial cooperation of Library of Congress, where D C editing wil henceforth be done, makes availabl the best posibl resources

Revized editions of Ful, Short and Outline wil be issued as fast as needed

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INTRODUCTION

[Simpler spelings ar strongly recommended for jeneral adoption by both American and English filolojic associations, ineluding nearly all prominent skolars in English now living.

The speling of this introduction has many more chanjes than we recommend for jeneral use at once. For convenient reference we hav included in 'Simpler speling reazons and rules' (p. 49–63) the famus 12 words adopted in 1898 by the National Education Association for all its official printing and correspondence, and adopted later by hundreds of periodicals, colejes and normal skools; also the 30 words, as a better tipical list with which to begin simpler speling; also the S S B rules, from which one shud select those which most appeal to him; also the 10 joint rules of American and English filolojists, and selections from rules of U S Geographic Board. From these one may choose chanjes he is willing to make, knowing how ampl authority is behind them. We recommend that each one convinst of the importance begin with a few of these chanjes, ading others from time to time as he and his correspondents becum familiar with the new forms. That it 'looks queer' is admittedly the only argument left to objectors. This introduction is speld to show how it wil look if practicaly all these recommendations ar uzed. Sum with specialy strong vizual prejudis wil hav attention distracted from the matter to the speling, but if with an open mind they wil try to concentrate on the meaning, they wil be surprized to find how quikly the new forms wil cease to annoy. Then if they continue reading them they wil soon be surprized to find that the old absurd common speling wil annoy. There ar comparativly few simpler spelings in Tables or Index but we decided to show in Introduction how extreme chanjes wud look]

Orijin and growth The plan of this Clasification and Index was developt erly in 1873, the result of long study of library economy as found in hundreds of books and pamflets, and in over 50 personal visits to libraries. This study convinst me that usefulness of libraries myt be greatly increast without aded expense. Only a fraction of the servis posibl cud be got from them without clasification, catalogs, indexes and other aids, to tel librarians and readers what they containd on any givn subject; yet, by methods then uzed, this cud be dun satisfactorily only at a cost so great as to be prohibitiv to all but a few welthy libraries. With rare exceptions, libraries wer growing rapidly. Catalogs, made at great cost, soon became antiquated. Methods uzed involvd frequent rearranjement, renumbering and remarking of books, and of necesity remaking of catalogs and indexes, as the only escape from a confuzion that seriusly cripld usefulness. In this costly repetition, work of previus librarians was larjly lost. The great need was a sistem which wud enable each to stand on the sholders of his predecessors, and fully utilize their labors; which wud make work dun today permanent, insted of sumthing to be superseded in so few years as not to be worth doing in the best way; which wud supply the best applyances, insted of leaving yung librarians not only to lern how to work, but to make all their own tools.

Practical use for 54 years proves that this sistem wil accomplish this result; for with its aid catalogs, shelflists, indexes and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when dun, they ar better and vastly more permanent. Practical utility and economy ar its keynotes and no theoretic refinement has been allowd to modify the skeme, if it wud detract from usefulness or ad to cost.

It was chiefly necesary to find a method that wud clas, arranje and index books and pamflets on shelvs, cards of a catalog, clippings and notes in scrapbooks and index rerums, references to all these items, and indeed any literary material in any form, as redily as an ordinary index gyds to proper paje of a bound book. This difficult problem was solvd by uzing no reference marks except the simplest simbols known to the human mind, arabic numerals with their uzual arithmetic values, and by aiding their unequald simplicity by many practical nemonic [mnemonic] devices.

Tho the importance of clasification was recognized, the filosofic sistems proposed wer so difficult fully to understand or apply that not 1 person in 1000 cud uze them practicaly. Decimal Clasification simplicity and even more its Relativ Index hav made this work 10-fold eazier. In recent years, use of the sistem has spred rapidly in all civilized cuntries, meeting success in thousands of different applications. In its simpl form a skoolboy can quikly master it and keep for instant reference not only his books but every note, clipping or pamflet. Almost every profession and occupation has lernd its wonderful laborsaving powers. It is in daily use by miriads of business and professional men who wud never even attempt to understand or uze the old sistems.

By mere adition of figures, without chanjing this shorter form, this very simpl sistem is redily made to record the utmost refinements of specialists, and the Relativ Index, as simpl as a, b, c, sends the novis to the exact place where the expert has clasifyd the matter sought. Thus 942 is history of England, and 942.99055 is history of County Pembroke in Wales, under Elizabeth, 5th of the Tudors. A colon between 2 numbers to mean 'in relation to', and other combining simbols for time, languaj etc. make of the sistem a compact shorthand for each fact. (See p. 40[3]–43[1].) But this brevity is les important than the eaz with which matter so markt can be arranjed (giving figures and decimal point their common arithmetic value), stored as compactly as wisht and found again in the least posibl time.

The sistem has been found equaly valuabl for cataloging, indexing, analyzing and summarizing, and for clasifying, numbering and arranjing books and pamflets on shelvs. For notes on other uses, see p. 43[2]–45[3].

The 1st edition, publisht in 1876, 12 pajes of tables containing 1000 sections, was criticized as altogether too elaborate for even a larj library. As fast, however, as the Relativ Index with its remarkabl powers became known, the rapidly increasing uzers askt for further subdivisions, til Tables hav grown from 2600 entries in Index of 1876 to 43,000 in this edition 12, becauz it has been found so eazy to gain the admitted great advantajes of close clasification, and yet, by means of this Index, avoid the old difficulties.

Extent of use The rejister of libraries which hav actualy adopted it, tho growing rapidly, is incomplete. Libraries often uze the sistem for many years before we lern the fact. We rejister all byers of the Clasification, so far as known, but do not assume that a library has adopted the

sistem becauz it has orderd the book. A L A Bulletin, Sep. 1926, p. 167, estimates a use by about 14,000 libraries. There is also an immense use (for which not even approximate statistics can be furnisht) by individuals, with their private, business and professional colections of books, pamflets etc., and in their correspondence and notes files. The sistem has been adopted, not only thruout U S, but in other parts of North America, in South America, in many European cuntries, and, stil more distant, in Asia, Hawaii, Philippines, Java, Australia and Africa, and the Tables ar known to hav been translated, either wholy or in part, into French, German, Italian, Spanish, Portuguese, Norwegian, Russian, Hungarian, Bohemian, Chinese and Japanese.

The table below shows the growth of the 12 editions.

Edition	Date	Number of pajes: Preface, etc.	Tables	Index, etc.	Total	Increase	Copies printed
1	1876	12	12	18	42		1000
2	1885	66	162	86	314	272	500
3	1888	4	227	185	416	102	500
4	1891	41	234	191	466	50	1000
5	1894	"	235	"	467	1	2000
6	1899	"	260	210	511	44	7600
7	1911	48	420	324	792	281	2000
8	1913	"	462	340	850	58	2000
9	1915	"	465	342	856	6	3000
10	1919	"	517	374	940[1]	84	4000
11	1922	61	551	376	988	48	5000
12	1927	67	683	491	1243	255	8000

What is the sistem? A Subject Clasification with a Relativ Index[2] so numberd or letterd that reference is compact, accurate and quik, is the essential feature; anything beyond this is merely applying this plan with varius helps and accessories. Any subject clasification with a *relativ* index in which the entry indexes a book in the ordinary way, and also indexes shelvs, cards, clippings or any other literary material, is a form of this sistem.

[1] Thru mistaken numbering printed as 936.

[2] Tho the author is interested only in the usefulness of the sistem, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the sistem — the Relativ Index, on which all else hinjes — had ever before been uzed as here to index by a singl reference most diverse material. Relativ location had been uzed, but not in the present combination with the subject index, which givs it most of its value. The Clasification Tables, while adopting sugjestions from many sources, ar orijinal in their sistem of arranjement and notation, and in many minor features. The decimal form and many nemonic features hav not been found in erlier use, tho since their invention in 1873 these as wel as the Subject Index and other features hav been very frequently copid, often with, but oftener without, aknowlejment of their source. But we ar glad to find this sistem, which has cost so much labor, doing good servis even for those who neglect to mention where they found so valuabl a laborsaving literary tool.

Notation We devized and experimented with several notations by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, 50, 100 and 150, yet none seemd good enuf to warrant publishing details, except that here printed, based on simpl arabic numerals with their uzual decimal powers. International adoption of this sistem is larjly becauz no one ever complains that any clasification is too simpl, while there is constant complaint of complexity. Decimal simplicity has so commended itself that many think of it as the only form, tho obviusly it wud be just as much a 'relativ index sistem' if the clasification wer wholy markt by letters or other simbols.

The Subject Index is the simplest application of a, b, c, the simbols next in simplicity to 1, 2, 3. This use of the simplest 2 sets of simbols known, with their common meanings, has givn our notation its worldwide reputation as the simplest yet devized.

Best known decimal form Decimal form means simply that heds ar groupt and numberd with common arithmetic figures uzed decimaly. This, the only decimal form thus far carefuly elaborated and publisht, is commonly spoken of as if it wer the only posibl form of our orijinal plan; tho obviusly an infinit variety of 'relativ index sistems' in decimal form *cud* be made by filling the outline with different heds, or with the same heds in different order.

To make out new heds involvs labor and cost vastly beyond the dreams of any person who has not tryd exactly this work. Time actualy spent on tables here printed, by varius committees and individuals, totals hundreds of years and has cost an immense sum. Uniform and urjent advice of the experienst is to adopt a poorer skeme alredy made rather than undertake so herculean a labor. When dun, the maker may posibly be better suited with it, but few if any others wil be. It is wizer for anyone whose time is of value, to uze it in sumthing more practicaly useful to himself and his library than in trying to construct a 'satisfactory' skeme of clasification. No one yet ever wholy suited himself or anyone else, and probably no one ever wil. By adopting this alredy workt out he saves much time and money, and gains the immense advantaj of uzing a sistem in common with thousands of others, so that he may utilize their labors and investigations and share with them economies of cooperation.

Relativ Subject Index This alfabetic Index, the most important feature of the sistem, consists of hedings gatherd from a great variety of sources, as uzers of the sistem hav found them desirabl in 54 years experience. After all these efforts, many new heds ar aded in each new edition.

The Index gyds in both numbering and finding books. In assyning numbers, the most specific hed that wil contain the book having been determind, reference to that hed in Index givs proper clas number. Conversely, in finding books on any givn subject, reference to Index givs number under which they ar found on shelvs, in shelflist, or in clast catalog. When any new subject cums up, interline it and its sinonims in Index,

with clas number decided on, so clasifyer may be uniform with himself in future work.

The Index givs similar or sinonimus words, and the same words in different connections, so any intelijent person wil surely get the ryt number. A reader wishing to know sumthing of the tarif looks under T, and, at a glance, finds 337 as its number. This gyds him to shelvs, to all books and pamflets, to shelf catalog, to clast subject catalog on cards, to clast record of loans, and, in short, in simpl numeric order, thruout the whole library to *anything* bearing on his subject. If he turns to Tables, he sees that it means clas 3, Sociolojy; division 3, Economics; section 7, Protection and free trade; but the number alone is enuf to clas the book or find it, for either clasifyer or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he wud hav been referd to 337, or sum one of its subdivisions.

Had he lookt for 'railroad' he wud hav found after it 22 separate entries, each preceded by a word or fraze indicating the faze of the subject in the skeme. A book on railroads may treat of the desirability of government ownership, control etc. and then is clearly a question of social syence; or it may be a practical handbook for an employee, explaining business methods of railroading, running trains, handling freight, etc. when it is as clearly one of the useful arts. The clasifyer knows to which of these heds his book belongs, and the reader knows in which of its fazes he wishes to examin the subject. Moreover, 3 and 6 beginning the numbers clearly indicate caracter of each clas. But even if significance of these figures is entirely disregarded, no confuzion results, for, on consulting the numbers in catalog, in skeme, or on shelvs the difference is clearly seen. In other cases, it is more useful to keep books on the same subject together, tho treated from different standpoints. A glance at the Index tels either reader or clasifyer which plan has been adopted.

All topics in blakface typ in Index ar further divided in Tables, where one may see the subheds. This saves reprinting all these subdivisions, which wud increase Index bulk many-fold; e. g. if one having a book on 'prison labor' looks in the Index for 'Convict labor' or 'Prison contracts', he finds at once its special number 331.51; but if, on the other hand he thinks to look only for jeneral subject 'Labor', he finds in blakface typ the entry 'Labor, political economy, 331', and turning to Tables he finds under 331 the subdivision '331.51, Convict labor', the exact topic in hand.

The greatest objection to a clast catalog has always been the difficulty in knowing just where to clas a book and just where to look for it when again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work for many years, there was a degree of uniformity; but even then there was danjer of looking at the same book at different

times from different viewpoints, thus cauzing confuzion. When the daily pres is ful of one faze of a subject, tendency is strong to clas all books on this subject from current viewpoint; and next year, if a different side of this same subject is before the public, there is same tendency to clas books from new viewpoint, thereby separating similar books and bringing together books on different fazes. But fortunately, practical usefulness does not require that the ideas of this or that one be followd, but only that books of same caracter be always put in same place, and that there be sum means of knowing redily what that place is. The Relativ Index, with its cach-words, was desynd and is found in use to meet both these requirements, for it insures that books on same faze of any subject cuming before the clasifyers shal be assynd to same place, and that any reader seeking these books shal be referd instantly to that place. If this is dun, all requirements of a good clasification ar fild. If it is not dun, the sistem is a failure; for the only real test of any skeme is its helpfulness to its uzers.

Sum prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to clas a book at first and where to look for it ever afterwards, has removed their strongest objections. Certainly it wud be imposibl to make an Index more compact or eazier of reference.

This Index allows a great part of the work of clasifying to be dun in advance by experts in larj central libraries with ampl resources, thus securing, at a mere fraction of uzual cost, better and more uniform results than wud be posibl to the ordinary clasifyer and reducing labor to much narrower limits than ever before.

To these thousands of subjects hav been carefuly assynd their individual numbers, many of them after long consideration and consultation with specialists. No one person is lerned enuf to clas wizely books on all subjects and syences; but botanists can assyn all botanic subjects to the ryt number, mathematicians all mathematical topics, and thus the Index wil in time becum as accurate as the best skolarship of the day can make it. Even if the decision reacht is not always wizest, all practical purposes ar servd, becauz, as each clasifyer copies the number from same Index, all books on that subject ar together; and, as each reader gets his number from this same Index, he goes directly to the book he seeks.

What Relativ Index includes The Index, containing 43,000 entries and constantly being enlarjd by ading new subjects, aims to include all topics exprest or implyd in Tables, together with every corresponding sinonim likely to be sought, but does not include most names of cuntries, towns, animals, plants etc. except when mentiond in Tables; e. g. it can not enumerate all species of trilobites, but when clasifyer has found from proper reference books that Remopleurides is a trilobite, the Index sends him to 565.393, and he can clas his monograf on that subject.

Tables The essential complement of the Subject Index is the Tables of Clasification, so mapt out as to show in 4 ways — i. e. by size of typ, face of typ, indention, and number of figures prefixt — each subject's rank in the Clasification.

The field of knowlej is divided into 9 main clases, numberd 1 to 9, and cyclopedias, periodicals etc. so jeneral as to belong to *none* of these clases ar markt 0 (naught) and form a 10th clas; e. g. clas 1 is library of Filosofy; clas 5, library of Syence; clas 9, History, etc. These special clases or libraries ar then considerd independently, and each is separated again into 9 special divisions of the main subject, numberd 1 to 9, as wer the clases, jeneral works belonging to *no* division having 0 for their division number. Thus 59 is division 9 (Zoolojy) of clas 5 (Syence). A 3d division is then made by separating each of these divisions into 10 sections, numberd in same way with 0 and the 9 dijits; and this decimal subdivision is repeated, til it secures as many subsections as may be needed in any topic. Thus 513 is section 3 (Jeometry) of division 1 (Mathematics) of clas 5 (Pure syence). This number, giving clas, division, section and subsection, if any, is cald the clas number, and is applyd to every book and pamflet belonging to the library. All jeometries ar thus numberd 513, all mineralojies 549, and so thruout the library all books on any givn subject bear the number of that subject in this skeme.

Where 0 occurs before the decimal point in a clas number, it has its normal zero value. Thus a book numberd 510 is clas 5, division 1, but *no* section; i. e. treats of division 51 (Mathematics) in jeneral, and is limited to no 1 section, as is jeometry, markt 513. 500 indicates a treatis on syence in jeneral, limited to no division. 0 occurring in the 1st place wud in the same way show that the book was limited to no clas; e. g. a jeneral cyclopedia which treats of all 9 clases.

With the same 'jeneral' sense, 0 is often uzed to indicate chanje in caracter of subdivision, meaning in this case 'basis of subdivision chanjes at this point', i. e. figure (or figures) following 0 apply to what precedes *in jeneral*, e. g. 505 indicates syence in *jeneral* treated in the form of a periodical. In history, clasification is by cuntries (i. e. *jeografic*) and as minute jeografic divisions ar needed for travels, gyd books, and varius other uses, the figures 1–9 ar jeneraly uzed for jeografic subdivisions and again for further jeografic subdivisions, as far as needed, and 0 followd by another figure for time division, i. e. the figures before the 0 indicate the locality as a whole, while figures after the 0 indicate the special time at which the history of the locality is being considerd; e. g. 942.06, consisting of 942 (*jeografic* division) and 06 (*time* division), means history of England in *jeneral* in time of the Stuarts, while 942.6 and 942.67 mean respectivly history of eastern England and history of Essex co., to which the same time division may be aded, giving 942.606 and 942.6706 as the history of those localities under the Stuarts. As any subdivision may, by ading figures 1–9, be givn 9 further subdivisions, any desired degree of minuteness may be secured in clasing special subjects.

Coordination Theoreticly division of every subject into just 9 parts is absurd. Practicaly it is desirabl to clas as minutely as posibl, without use of aded figures; and decimals, on which our skeme hinjes, allow 9 divisions as redily as fewer. This has proved wholy satisfactory in practis, tho apparently destroying proper coordination in sum places.

Where more than 9 divisions ar needed the difficulty is commonly obviated by grouping on singl numbers the subjects most closely allyd, or by assyning 1–8 specificly to most important subjects and grouping minor subjects on 9 as 'Other.' Since any of these groups may be further subdivided for specific topics as needed, provision is thus made for an unlimited number of subjects.

As in every skeme, many minor subjects ar under jeneral heds to which they do not strictly belong. In sum cases, these heds ar printed in distinctiv typ; e. g. 829 Anglo-Saxon, under English literature. The rule has been to assyn these subjects to the most nearly allyd heds, or where it was tho't they wud be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it wil be supplyd as soon as discoverd, for we intend to provide in the Tables a place for every known topic.

New subjects A new topic is always closely related to sum existing hed. If there is no blank number availabl it is combined with the hed nearest allyd, and, when important enuf, distinct provision for the new cumr is made by ading another decimal. The sistem is thus capabl of unlimited expansion, and can never break down for lak of room for growth.

Choice and arranjement of heds Detaild explanation of selection and arranjement of the many thousand heds wud be tedius; but everywhere filosofic theory and accuracy hav yielded to practical usefulness. The imposibility of making a satisfactory clasification of all knowlej as preservd in books, has been appreciated from the first, and theoretic harmony and exactness hav been repeatedly sacrificed to practical requirements.

Sequence of allyd subjects Wherever practicabl, heds hav been so arranjed that each subject is preceded and followd by most nearly allyd subjects, and thus aded convenience is secured both in clast catalogs and on shelvs; e. g. Bilding (690) follows Mekanic trades (680) at end of Useful arts, and Arkitecture follows at beginning of Fine arts.

Students of Biolojy (570) find fossil life or Paleontolojy (560) before, and vejetabl life or Botany (580) after, this followd in turn by animal life or Zoolojy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicin, thus giving a regular growth from fossil plant thru vejetabl and animal kingdoms to living man.

Cachtitles In naming hedings, strict accuracy has often been sacrificed to brevity, for short familiar titles ar more important than that terms chosen shud express fully and exactly caracter of all books clast under them. Many subjects, apparently omitted, wil be found in the Index, assynd, with allyd subjects, to a hed which bears the name of the most important only. Reference to the Index wil decide at once most doutful points.

Form distinctions The clasification is mainly by *subject* or *content* regardless of form (see p. 29[3]) but an aded form distinction for jeneral treatises is found practicaly useful.

Thus, in Syence there ar many compends, dictionaries, essays, periodicals and socyeties, treating of Syence in jeneral, and so having 0 for the division figure, but treating it under different forms, and therefore divided into sections according to this form: 501 for filosofy or theories of Syence, 502 for compends, 503 for dictionaries, etc. This treatment is as nearly as practicabl, uniform in all clases. Creasy's '15 decisiv battles' is 904, the 1st figure being 9, becauz the book is clearly history; the 2d figure 0, becauz limited to *no* division of clas 9; and the 3d figure 4, becauz the book is a colection of essays.

The 10 main clases ar regularly divided by form, e. g. 809, history of literature in jeneral. For divisions, sections or subsections having *enuf* jeneral material to make such division advizabl, form numbers, preceded by 0, may be uzed (e. g. 820.9, history of English literature; 821.09, history of English poetry), except when 0 and the following number hav been otherwize assynd, e. g. 821.04 English liric poetry, *not* essays on English poetry; 942.05 England in time of the Tudors, *not* a periodical on English history. A history of English literature is 820.9, not 809, becauz every book belongs to the *most specific hed* that wil contain it; so 809 is limited to histories of literature in jeneral. Books treating of many clases, such as jeneral cyclopedias or periodicals, go in clas 0 and ar then divided by form into cyclopedias, periodicals, socyeties or newspapers.

Do not confuze form number 07, meaning 'methods of study or teaching', with number for same subject under 375, which is for its value as a means of education, or for its curiculum place.

These form distinctions ar introduced at the beginning of the clas becauz the number of jeneral works is larj, and these 1st numerals wud otherwize be unuzed.

Form divisions always hav the same set of numbers, preceded by 0, i.e. 1 filosofy, theories etc. 2 compends, outlines; 3 dictionaries, cyclopedias; 4 essays, lectures, letters etc.; 5 periodicals, magazines etc.; 6 socyeties, associations, transactions, reports etc.; 7 education, study, teaching, training etc.; 8 poligrafy, colections etc.; 9 history. Thus a periodical on a subject has the subject number followd by 05; e. g. a periodical on public helth, 614.05.

But if the number alredy ends in 0, 0 is not repeated before form-division figures; e. g. a zoolojic magazine is 590.5, not 590.05.

Minute clasing On first publication in 1876, a common criticizm was that 1000 heds cud never be successfuly uzed, however desirabl so close clasification myt be. As soon, however, as actual experience proved it as

eazy to uze 1000 heds in the new sistem as 100 in the old, the obviusly great practical value of close clasing led one uzer after another to urj strongly publication of more subdivisions. Minute as ar many now givn there ar none that sum hav not askt for and almost none that others hav not declared needless. Subdivisions ar made in such a way that one may uze all, or any part and ignore the rest without difficulty or confuzion, thus allowing each to uze minute subdivisions where he wishes or needs them, without being forst into refinements in subjects where he has few books or litl interest. Since the degree to which any skeme shal be applyd is optional with each clasifyer and close analisis is useful to everyone in defining content or in clarifying differences between related subjects, even elaborate skemes ar printed in ful if no essential objection has been bro't against them by the best qualifyd critics. The 1st 3 figures only may be uzed when preferd, and the rest show the scope of the subject. On many topics minute subsections ar printed simply for this purpose, and for use in indexing periodicals and socyety transactions, and in keeping notes. Note typ is uzed for topics clearly useful only to specialists or as showing scope. Many others probably belonging in same category, if doutful ar in regular typ of their grade.

The advantaj of close clasing is unquestiond, if the uzer knows just what it is. With this plan it is not only practicabl, but comparativly eazy. If there ar only 10 books on a givn topic, it is useful to hav them in groups amung themselvs, for otherwize they wud hav only accidental order, which is of servis to no one. A reader wishing a specific book shud go, not to shelvs, but to catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to its exact place by the Subject Index. If he wishes to study the library's resources at the shelvs, he wil be *greatly helpt by minute clasing*. A teacher showing his pupil the material on any subject wud, if there wer only 20 books, surely *put together* those covering same points, even if there wer only 2. Much more shud librarians group closely their greater colections, that readers may gain sumthing of the advantajes of an experienst gyd.

Thus every specialist has his own special library. If a student of syence in jeneral, he is sent to clas 5; if his department is zoolojy, his library is 59; if his specialty is shels, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject, being a library by itself, shows resources and wants as no catalog can. A catalog can not be made to take satisfactorily the place of handling books themselvs. This advantaj weighs most in a colej or socyety library, where many go to the shelvs; but even if only librarians ar admitted, close clasing is worth its cost becauz of aded power givn.

Tentativ tables More and more minute subdivisions hav been specialy cald for til the 1000 heds of 1873, with 2600 index entries in edition 1,

hav increast til they command 43,000 index entries, in edition 12. After getting many sugjestions, sumtimes hundreds, for aditions or further subdivisions of sum subject, we draft a skeme and test it on a sampl colection. To get larjer cooperation in perfecting it we sumtimes print the new draft in Tables without including its new words in Index, so every uzer wil see what is proposed and if interested may test it on his own work and submit sugjestions for improvement. Then in the next edition, with this great help, needed revisions can be made and all new words inserted in Index.

As result of agreement between Institut International de Bibliographie and ourselvs (see p. 40) we hav included in edition 12 many I I B expansions, while sum other expansions recently prepared by us hav not yet, for lak of time, been submitted to I I B and must therefore, strictly speaking, be regarded as tentativ til accepted by that body, but as these expansions wer developt with view to such acceptance we look for litl chanje, and their larj number has made it impractical to designate them.

Nemonics [mnemonics] Heds hav sumtimes been arranjed to secure nemonic aid in numbering and finding books without the Index; thus China has always number 1. In Ancient history, it has the 1st section, 931; in Modern history, under Asia, it has 951. Similarly the Indian number is 4; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; Russian, 7; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languajes or cuntries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This nemonic principl is specialy prominent in Filolojy and Literature, and their divisions, and in *form* distinctions uzed in the 1st 9 sections of each clas. Filosofy, methods or theory, occurring as a hed, is always 1; dictionaries and cyclopedias ar 3; essays, 4; periodicals, 5; associations, socyeties and institutions, 6; education, 7; poligrafy or colections, 8; history, 9. In numerus cases several minor heds ar groupt together as Other, uzualy numberd 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals ar 5, Asia is 5, Oratory is 5, etc. Even wer it posibl, to limit 5 to Italian wud waste numbering material, and results wud not justify cost. The purpose is to giv practical aid, not to follow fanciful theory. A clasifyer marking a French grammar, remembers that all Filolojy begins with 4, and, as French is always 4 and grammar 5, he knows the number *must* be 445. Italian (5), poetry (1), is plainly 851 with no danjer of being mistaken for 'poetry of grammar' or 'theory of Asia,' becauz the numbers also hav those meanings. This feature is an *aid*, not regular method, and in all doutful cases one refers at once to Index or Tables. Sugjested difficulties ar uzualy creations of injenius theorists and not outgrowth of practical experience.

Wherever practical, this nemonic principl is uzed in subdividing sections. 558, Jeolojy of South America, is subdivided by ading the *sections*

of 980, History of South America. Jeolojy of Brazil then *must* be 558.1: nemonicly, the 1st 5 is Syence; 2d 5, Jeolojy; 8, South America; and 1, Brazil. Any library attendant or regular uzer of the skeme recognizes 558.1 at a glance as Jeolojy of Brazil. This nemonic feature occurs in several hundred places, and is of great practical utility in numbering and finding books without catalog or index, and in determining caracter of any book simply from its call number. Extent of use is shown in 5 tables appended to main Index, giving alfabetic lists of (1) subjects, with clas number of each, which may be subdivided jeograficly; (2) form divisions, with figures to be aded in making such division; (3) languajes, with their clas numbers, which may be further subdivided filolojicly by ading figures givn in Index table 4; (4) filolojic divisions, with figures to be aded in subdividing any languaj in Index table 3; (5) literatures, with their clas numbers, which may be further subdivided by ading form divisions from English literature.

As in close subdivision, wish for nemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptibl: e. g. whether in filolojy order shud be French, Spanish, Italian, or French, Italian, Spanish. In such cases nemonic numbers wer givn preference, and 54 years use has proved this wizest. Great gain, beside eaz of remembering, results from this *uniform* use of same numbers with same meaning whenever similar division is made. Wherever division by languajes or cuntries is made, it follows filolojy or history numbers, and in Tables, the note 'Divided like 900' fully takes the place of reprinting all history subdivisions. This saving justifys use of these numbers in sum cases, even where a sumwhat different order myt seem more nearly fitted to the special case; e. g. in 342, constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) wud be better than our order, which separates them both from England and from each other. Stil by following the uzual 'procrustean' numbers, many topics can be subdivided minutely without further study, by simply applying history or languaj subdivisions. A singl ilustration of the astonishing power this principl givs wil suffice, tho thousands myt be givn: 016 is 'Bibliografy of special subjects, divided like main clasification', therefore by aid of tables under 581, 016.581974742 redily translates itself to all uzers into 'Bibliografy of flora of Albany co., N Y'. While these 12 figures myt never be uzed, if a specialist wishes minute division, it is redy to his hand, conforms to Index, and wil be clearly understood by anyone familiar with our plan. A specialist wud in such cases probably adopt a contraction for his long number, and uze in ful only the minute divisions. See p. 38[2] for such contractions.

Decimalism Utility has not been sacrificed in order to force subjects on the 'decimal procrustean bed'. *Decimals hav been uzed as servants, not as masters.* When subjects ar combined or separated into just

10 heds, it has been from no necesity of the skeme, but becauz it seemd most useful, all things considerd. In many cases there wer orijinaly only 3 to 7 heds insted of 10; but uzualy, during years of testing before publication, it proved advizabl to divide sum of these heds, as it took no aded space or labor. On the other hand, there wer cases where more than 10 heds seemd more natural; and, as any number up to 100 is provided for by ading one decimal, this was dun in most cases. As only 1000 sections wer first printed, it was often necesary to put 2 or more closely allyd topics together under the same number, as must stil be dun whenever a library limits number of figures uzed to 3; but during 54 years use subdivisions hav multiplyd, til now nearly every topic has its own special number. The skeme givs us for each topic, as it wer, a case of 9 pijeonholes, with a larj space at the top; and we uze them as every practical business man uzes such pijeonholes about his desk. If, as in 220, there ar les than 9 main topics, it is often convenient to uze the extra spaces for subdivisions. Thus we keep separate, under Old Testament, historic, poetic, and profetic books; and under New Testament, the Gospels, Epistls and Apocalips. Spaces ar there, and it is convenient to uze them for jeneral works on those groups — a reason that experience proves a good anser to the charj of lak of coordination, tho indention and typ in Tables make that charj baseless. Then in 280, having more than 9 topics, if we ar uzing only 3 figures we put Congregational in same space with Presbyterian, and small denominations together in the last box, just as a business man puts his papers in his pijeonholes. If he insisted on having a different case made to order for each use, it wud cost over twice as much; he cud not group them together or interchanje them, and they wud not fit offis shelvs.

There has been perverse misapprehension of this feature, and critics oftenest stumbl over 'procrustean 10'. In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It can not cum to yur door nor wait yur convenience, as does the automobile; it can not go to the fields for its loads of produce; it can not turn out for obstacls; but *becauz it is procrustean* it can do its larj-scale work much better and quicker and cheaper. The paralel cud be fairly extended to many other cases, but any tho'tful mind wil recognize that the economy and eaz of working the Decimal sistem ar larjly dependent on its being procrustean. To this we owe much of the great simplicity of the Relativ Index, many nemonic correspondences, and the useful 0 to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of languaj and form in Filolojy and Literature, and scores of similar advantajes, depend wholy on 'procrustean 10', or else on sum other number equaly procrustean, but lacking the advantajes of exact correspondence to our arithmetic.

Relativ location Economy and simplicity cald not only for the Subject Index, but also for sum plan of consolidating the 2 sets of marks

previusly uzed; one teling *what* subject a book treated, the other *where* the book was shelvd. By relativ location and decimal clas numbers we make our simpl arabic numerals tel of each book and pamflet, both *what* it is, and *where* it is.

In fixt relation, to find book, pamflet, clipping or note is like finding a man when yu know his town, street, hous and room.

In relativ location it is like finding a soldier if yu know his army, division, rejiment and cumpany. If John Smith is 3d man in 2d row of Cumpany B, rejiment 69, 4th division, whether the rejiment is in camp, on parade or on march, his place is not determind by the bit of ground on which he stands, but by his relation to the rest of the army. If soldiers ar ded and in the cemetery they ar as eazily found by fixt as by relativ location. But if the army is alive and militant, as every library or private working colection o't to be, its resources shud be *findabl* whether in camp, on march or in action.

In arranjing books on shelvs, the formerly common absolute or fixt location by shelf and book number is wholy abandond, relativ location by clas and book number being our chief feature. Accumpanying clas number is the book number, which prevents confuzion of different books on the same subject.[1] In finding books, numbers markt on baks ar followd, the upper being the clas and the lower the book number. Clas is found in its numeric order amung clases, just as shelf is found in fixt sistems. Shelvs ar not numberd, as increasing different departments, opening new rooms, and any arranjing of clases to bring books most circulated nearest delivery desk, wil at different times bring different clas numbers on any givn shelf. New books, as recievd, ar numberd and put in place, in same way that new titles ar aded to card catalog.

Thus all books on any givn subject stand together, and no aditions or chanjes ever separate them. Not only ar found together all books on subject sought, but most nearly allyd subjects precede and follow, they in turn being preceded and followd by other allyd subjects as far as practicabl. Readers not having access to shelvs find short titles arranjed in same order in shelflist, and ful titles, imprints, aded subject entries, references, notes etc. in clast catalog.

Parts of sets, and books on same or allyd subjects, ar never separated as they ar sure to be, sooner or later, in a library arranjed on fixt plan, unless it be frequently rearranjed and recatalogd, a procedure too expensiv even for very welthy libraries. Relativ sistem clas and book numbers remain unchanjed thru all chanjes of shelving, bildings or order of clases.

Amung hundreds of points raizd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to erlier sistems was that in this relativ location a book which this year

[1] For sugjestions regarding best forms of book numbers see p. 32[L]–33[7].

stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, becauz of uneven growth of parts of the library. This slyt objection, however, inheres in any sistem where books ar arranjed by subjects, rather than by shelvs, windows, doors, and similar non-intelectual distinctions.

Sizes on shelvs Most libraries hav abandond close distinction of sizes. It is true that this distinction saves a litl space, but at far too great a cost; for every distinction of sizes makes a paralel clasification. If books ar groupt in 5 sizes, one must look in 5 places before he can be sure of having seen them all.

It is better to shelv octavos and all smaller books together in 1 series, and arranje in paralel libraries only quartos and folios, which ar too larj to stand on regular shelvs, showing series in which any oversize book is put by a size letter prefixt to the book or clas number; e. g. 749 qA or q749 A shows that book A on Artistic furniture is too larj for regular shelvs, and so is placed in q or quarto series. Or uze a wood or pasteboard dummy to show location of a book not in its regular place. But, however solvd, size problems ar no more trublsum with Decimal than with any other clasification.

Catalogs

Any sistem of catalogs may be uzed with this skeme, but the 2 essentials of even the simplest sistem ar name or author catalog and shelflist. The chief uses of this sistem for catalogs ar for shelflists and for clast catalogs on cards.

Name catalog In this, arranjed strictly by names of authors and of persons or places writn about, the clas number holds a subordinate place, yet is constantly useful. If printed, it appears in a singl colum as in the Relativ Index, and where there is no subject catalog one can rapidly pik out books on any topic by glancing down colum for clas number wanted.

Shelflist Here clas number is again hyly important, as it makes this list the most useful form of brief subject catalog, giving author's name and brief title of every book on specific subject bearing that clas number.

Clast catalog In the clast card catalog the clasification is mapt out abuv the cards by projecting gyds, making reference almost instantaneus. Subjects ar arranjed in 1, 2, 3 order of their decimal subject numbers exactly as in clas tables, and cards of each subject ar then subarranjed alfabeticly by authors (or, in sum cases, e. g. biografy or local history, by subjects) or cronolojicly, or by book numbers.

The printed subject catalog on this plan is also most compact and satisfactory in use. Under each clas number ar givn the library's resources on that subject, the heding giving, for convenience, name as wel as number of subject; e. g. '513 Jeometry'. Jeneral notes ar printed in finer typ under

jeneral heds, and a relativ index at the end shows just where to open the book to find any topic. As clas numbers ar put in place of paje numbers, this index servs for *any* catalog, list or library arranjed on this plan.

Dictionary catalog The dictionary catalog is as eazily uzed with this sistem as with any other, and is at present on the crest of its wave of popularity. Its failure to meet skolars' requirements has often been pointed out. While far the best for an index, it stil leavs much need of a good clast catalog. But difficulties both of making and of uzing a clast catalog wer formerly so great that there was a conviction amung many librarians that notwithstanding its great advantajes, the idea must be abandond as impracticabl, tho other eminent authorities ably argued that the poorest clast catalog was better than one unclast, and that any use of such a catalog was in itself a lesson in bibliografy. Now that the serius difficulties of making a good clast catalog hav been so larjly removed by the simpl arabic numerals and Relativ Index of this decimal plan, the merits of clast over the more common dictionary sistems ar dubly prominent.

The Subject Index of this sistem is a skeleton dictionary catalog, covering everything not fully coverd by the 'name catalog'. Insted of giving book titles under each hed, the number *refers* to all those titles simply and directly. The index may be made on any of the varius dictionary plans, with all the advantajes it may possess. To us, simplest seemd best. We giv only short heds with brief indication in doutful cases of viewpoint taken in assyning clas numbers.

We therefore unite advantajes of dictionary and clast catalogs, not by mingling them and so losing much of simplicity of one and as much of excelence of the other, but by realy uzing both, each with its own merits. Only one set of titles is needed, for our clas numbers make this availabl for both catalogs.

Advantajes

Shelvs The sistem on the shelvs is the simplest form of relativ location. Many libraries hav adopted it for shelf arranjement, where catalogs recently printed, or larj investment in another plan, made it too expensiv to chanje anything else. For its great advantajes for shelvs see p. 21^{9}–23^{1}, Relativ location.

Shelflist By simply printing the shelflist at any time an admirabl subject clas list is made for any topic on which there may be present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about waterworks is wanted. The librarian has only to open his shelflist to 628.1 and 352.6 and print it. This great advantaj is gaind with but slyt variation from the form found best in its regular use as a shelflist for examination of shelvs to detect losses and misplacements.

Accession book Where shelf mark colums ar uzed, tables of number of books aded on each subject ar redily made. A glance shows caracter, by subjects, of books aded during any givn period; for, wherever this clas number occurs, it tels not only *where* the book is shelvd but also *what* it is about.

Pamflets These clas numbers applyd to pamflets, whether catalogd or uncatalogd, hav proved specialy satisfactory. Number is writn on upper left corner, and pamflets ar shelvd in pamflet boxes, side by side with books on same subject, or they may be kept in vertical files or on special shelvs divided every 10 cm by perpendicular partitions, or, if preferd, each pamflet may be put in exact place as if bound. Litl expense is incurd, and yet entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantajes of this clast arranjement, both in economy and usefulness, wil be appreciated by every keeper of a pamflet colection. A name or author catalog is made on slips if time allows. The pamflets themselvs ar the best subject catalog. Placing all material under its clas number on regular shelvs, has the great advantaj of enabling anyone examining a subject to see all resources in 1 place, so far as posibl.

Sale duplicates The same arranjement is admirabl here. Duplicates ar so constantly chanjing that a catalog can hardly be afforded, and a subject arranjement on any other plan than this is difficult to maintain. Stil, it is very important that there be sum means of knowing what duplicates there ar on any givn subject. By simply penciling clas numbers on books and arranjing these numericly, it is posibl to giv the information more quikly, cheaply and satisfactorily than in any other way.

Charjing sistem Clas numbers may be uzed for charjing with the following advantajes: Minutest statistics of circulation can be made by simply counting charjes and entering the number for each clas on a report sheet. If filing is dun by call numbers, as either a primary or a secondary consideration, whereabouts of any book lent or amount of use of any subject is quikly found: file givs an up-to-date record of all books lent in any subject. e. g. cards filed under 52 show for Astronomy or those under 822 for English drama just how many and what books ar out and who hav them Such a circulation table, always at hand, and with no extra expense or labor, since it is a natural part of the sistem, is hyly prized by all interested in caracter of jeneral use of the library, while it can by trifling labor be converted into a permanent record by entering on a report sheet. If a reader's card is uzed, caracter of the individual's reading is here shown and never before has so much attention as now been givn to educating readers' tastes.

Subject references For these it has peculiar advantajes. Many uzers ar undertaking analises and cros references to an extent hitherto tho't wholy or almost imposibl. These few figures tel as clearly as a long heding exactly what the reference is, while gain in eaz of use is even greater than in time and space saved in recording. The clearness and directness

of the method aid wonderfuly in this work. References to transactions, or chapters in essays, may be made in the most compact and uzabl form. See also p. 40^3–43^1 Bibliografic modifications.

Recataloging or reclasifying When Amherst College in 1873 first adopted this plan and began to recatalog its library, it was found (as in hundreds of cases since) entirely practicabl to chanje to the new sistem gradualy, as means allowd, without interfering in any appreciabl degree with circulation. Methods employd for thus chanjing without interrupting use must vary according to different conditions. The essential feature is enuf distinction between old and new call numbers to be eazily recognized by attendants. If old call numbers consist wholy of figures, the initial letter of the Cutter author numbers furnishes this requisit. All numbers of figures only ar then recognized as old, and all numbers containing a letter as in the new sistem.

Adaptability The sistem is so flexibl that it adapts itself to almost any circumstances. It may be uzed with proportionate results in almost any one of its applications without the others. It may be applyd to pamflets alone, bringing order out of caos, and solving this vext and vexing problem; or it may be uzed for catalogs, leaving shelf arranjement as before; or it may be applyd to shelvs, while the catalog is dictionary or any other typ.

Arabic numerals Arabic numerals can be writn and found quicker and with les danjer of confuzion or mistake than any other simbols. Therefore roman numerals, capitals and small letters, and similar simbols found in most clasification sistems ar entirely discarded, and by exclusiv use of arabic numerals thruout shelvs, and indexes, catalogs and other records, there is secured the greatest accuracy, economy and convenience. This advantaj is specialy prominent in comparison with sistems where author's name or the title must be writn, in calling for or charjing books and in making references.

Endowment of special departments Another great advantaj is peculiar adaptability to special endowments. One specialy interested in any subject can often be induced to endow that subject, thus providing for bying each year all the best publications.

If John Doe is specialy interested in opera, the library says: 'Giv us $1000 as endowment of 782, and we wil call it the 'Doe Library of Dramatic Music'. There wil be found every book, pamflet, newspaper clipping, or manuscript that the library has or can get on this subject. Gifts from others wil be placed in the Doe Library, the donor's name being givn on the bookplate, and for jenerations to cum every person interested in opera wil be grateful for yur foundation'. In this way 782 is assynd to John Doe, and his pride is stimulated in developing it. If another man with larjer means and interest wil endow the whole subject of music 780, there is no difficulty or impropryety in including 782, the Doe Dramatic Music Library, as the 2d section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has amung its readers sum specialy interested, who if properly approacht wud endow sum topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great servis in working up these special endowments.

Summary To sum up its claims: It is by far most inexpensiv; eazily understood, rememberd and uzed; practical rather than theoretic; brief and familiar in nomenclature; susceptibl of partial and gradual adoption without confuzion; convenient for arranjing pamflets, sale duplicates, and notes, and for indexing, and in keeping statistics and cheks for books off shelvs; a satisfactory adaptation of card catalog principl to shelvs. It shelvs books compactly; uzes simpl and few simbols; can be expanded, without limit and without confuzion or wasted labor, both in catalogs and on shelvs or in catalogs alone; cheks thuroly and conveniently against mistakes; admits redily numerus cros references; is unchanjeabl in its call numbers, and so givs them in all places where needed; in its Index affords an anser to the greatest objection to clast catalogs, and was the 1st satisfactory union of the advantajes of clast and dictionary sistems.

Sugjestions to uzers

Hold book in ryt hand and turn with left, then both clas numbers and index heds show most plainly on left marjins and reference is quicker when eye follows left pajes only.

Numeration In thinking or speaking of clas numbers, to avoid confuzion **always divide at the decimal point, and name it;** e. g. read 942.27 'nine forty-two, point twenty-seven', never 'ninety-four two twenty-seven'. If 'point' wer omitted, the ear myt redily interpret 270.2 (two seventy, two) as 272, while 'two seventy, point two' can never be misunderstood.

Plan of book

Tables First paje shows 10 clases into which all topics ar divided. Next paje shows 9 divisions of each of these 10 clases, in a birdseye view of the whole skeme on a singl paje. Then follows a sinoptic view of 10 pajes, one for each clas, showing the 9 sections of each division of each clas.

Following these sinopses is the complete clasification, which repeats in proper order, clases, divisions and sections, with all subsections. For convenience of uzers, who thus get fuller and clearer ideas of the field which each number covers, sinonimus terms, exampls, brief notes, dates and varius cachwords ar often aded to main heds. Therefore all references to numbers **shud be lookt up in the ful tables** of subsections, uzing summaries only when a merely sinoptic view is wisht.

Index Next an alfabetic index of all heds refers by clas number to exact place of each in Tables. This Index includes also, as far as found,

all sinonims or alternativ names for heds, and any other entries likely to help a reader find his subject more redily. Even a uzer who knows just where to turn to his subject in the Tables, may, by consulting the Index, be put on the trak of valuabl allyd matter which he myt otherwize overlook.

Use of Tables and Index

Familiarity with Clasification Get a jeneral knowlej of the skeme by lerning the 10 main clases [yu wil soon know the 100 divisions also without special study], so that yu can tel to what subject a givn number belongs from its 1st figure, without referring to Tables. Specific knowlej of minute divisions wil cum gradualy, but rapidly, from use. Assyn numbers by uzing Tables alone, and then always verify yur result by the Index. Thus yu wil more rapidly acquire knowlej of the Clasification and facility in its use. To do this, decide first to which of the 10 clases the subject belongs; next, take that clas as if there wer no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down yur topic in its groovs, which becum 10-fold narrower at each step. **As a chek against error, even tho familiar with the skeme, uze Index freely.**

Subject of a book To find this out, consult:

1 **Title**, since it is jeneraly chosen to show what the book is about, but as many titles ar vague or misleading, never clas from title alone but always examin also

2 **Contents table,** which is best gyd to true subject. If there is no contents table read

3 **Hedings of chapters,** or marjinal topics

4 **Preface** Unless alredy certain, glance thru this to cach author's viewpoint and verify impressions gaind from title and contents

5 **Reference books** If preceding means fail, consult relyabl bibliografies, clast and annotated catalogs, biografic dictionaries, histories of literature, cyclopedias, reviews etc. for information about caracter of book.

6 **Subject matter** If 5 shorter methods abuv fail, examin subject matter of book itself, and if stil in dout, to avoid mistakes, put aside on an 'under consideration' shelf til yu can examin more thuroly or consult

7 **Specialists** Experts ar uzualy glad to examin any new books in their departments, enuf to clas them, i. e. to define their true subject and relations. Old ones they know where to put alredy.

Be specialy careful when dealing with flexibl terms, e. g. child welfare, to make sure of the caracter of its application in that individual book.

After deciding what the book is about, find this subject in Tables, either thru Index or by uzing Tables directly, which for beginners is a longer process, seldom to be trusted without subsequent reference to Index; e. g. Pollock's *Land laws* myt naturaly be clast from Tables alone

as '333, Land: ownership; ryts; rent', which seems exactly to fit this book. Index, however, shows 2 numbers, both referring to land laws, but from different viewpoints; i.e. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to giv a popular presentation of English statutes pertaining to landholding, not to discuss history and theory of land laws from economist's viewpoint. It should be clast '347.2, Realty', which myt hav been overlookt but for Index.

Assyning clas numbers 1 Practical usefulness controls. Put each book under the subject to the student of which it is most useful, unless local reazons 'attract' it to a place stil more useful in yur library. See p. 30[3].

2 *Content* or real subject of which a book treats, and not *form* or accidental wording of title, determins its place. Following this rule, put a filosofy of art with Art, not with Filosofy; a history of mathematics with Mathematics, not with History; for filosofy or history is simply the *form* which these books hav taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they ar most useful. (See also p. 17[1].)

3 Always remember that the question is not 'where wil one probably look for a certain book', but 'under what subject is the book of greatest value'; e. g. it is of litl consequence whether 'one wud be apt to look' under 595.16 for Darwin's *Formation of vegetable mould*, but of much consequence that one studying erthworms shud find that book in 595.16 Erthworms, since it is chiefly valuabl as a study of erthworms' habits. Anyone wanting that special book shud look for it in catalog under Darwin.

4 Giv every book most specific number which wil contain it. This varies in different libraries according to number of figures uzed, e. g. specific number for 'compulsory vaccination' is 614.4738; but in a library uzing only 3 figures, 'most specific' number posibl is 614, which must take everything on Public helth.

Sumtimes a library unwizely puts all books of a division together, if but few; e. g. all mathematical works ar markt 510. It takes just as many figures and in most cases just as much labor and if a man wants the 1 calculus in the whole library he has to serch thru perhaps 100 volumes in 510, when otherwize he wud instantly find it standing alone as 517. See also p. 31[1], Number of figures in clas number.

5 'Predominant tendency' or obvius purpose of a book uzualy decides its number at once. Stil a book often treats of 2 or more subjects. In such cases put it where it wil be most useful, and make aded entries for all subordinate subjects. For a clast catalog giv the aded entry numbers on both bookplate and main subject card as wel as on aded entry cards.

It is a markt advantaj that these aded entries, notes etc. may be made from time to time at convenience. It is necesary at first to determin only predominant tendency of book in order to clas it; aded entries ar made whenever found desirabl.

Supply these numbers indicating more closely caracter of book as rapidly as posibl, and invite all specialists, in connection with their reading, to call attention to every desirabl aded topic notist. The numbers take litl room, ar eazily aded, and in most cases ar very valuabl.

6 If 2 subjects hav distinct paje limits, jeneraly clas under 1st and make analitic entry under 2d; but if 2d is decidedly more important or much greater in bulk, clas under that, with analitic entry under 1st. Always put a book under 1st subject, unless there is good reazon for entering it under another.

7 Consider not only scope and tendency of each book, but also nature and specialties of each library.

Any subject of which a library makes a specialty naturaly 'attracts' allyd subjects. This influence is strongest in minute clasing. To admit this variation, many subjects hav in this skeme 2 or more places, according to these different sides; e. g. a book on 'skool hyjiene', which a medical library puts under 613, has also a place in 371.7, where education specialists require it.

8 If a book treats of a majority of the sections of any division, giv it division number, insted of most important section number with aded entries. Unless sum one section is so prominently treated as to warrant placing the book in it, clas a book covering 4 or more sections under division number; e. g. clas a volume on lyt, heat and sound, under hed most fully discust, with aded entries for the others; but if it treats also of mekanics, hydrostatics and neumatics, clas as 530, or jeneral fizics, tho no mention be made of electricity, magnetism or molecular fizics.

9 When a book deals with 2 consecutiv and closely allyd subjects, jeneraly clas with 1st and regard this as including 2d, but if 2d is decidedly predominant, clas with this and either disregard 1st or make aded entry, according to importance of that portion.

10 To secure uniformity, make for future reference ful notes of all difficulties and decisions, for it is more important to put books on same subject *together* than to put them in a more nearly absolutely correct place. These notes shud be writn on broad marjins of the Clas Tables or in an interleavd copy or on P slips arranjed by clas numbers like a clast catalog.

11 Keep colected works, libraries etc. together, and assyn, like individual books, to most specific hed that wil contain them; or assyn to most prominent of varius subjects treated, with aded entries for others; or, better, separate and clas parts as independent works.

This last practis constantly grows in favor, and many librarians now larjly disregard uniform bindings and 'series' lettering, and, unless contents of volumes ar so connected that they can not be separated, clas each under most specific hed that wil contain it.

12 Clas translations, reviews, keys, analises, ansers and other books *about* specific books with orijinal book, as being there most useful.

Number of figures uzed in clas number Decide this according to circumstances in each library. Small libraries often uze minute subsections beyond 3 figures only in certain divisions like Travel, 913–919, where closer jeografic division is specialy needed, and in 400 and 800, when a 4th figure is needed to separate different languajes.

In very small colections 2 figures myt do til growth required further division; but it is economy, and saves handling books again, to uze at least 3 figures at first, even in smallest colections. In larjer or rapidly growing libraries all subdivisions may be uzed for same reazon, tho number of books may not then seem to justify it. Whether there ar 1 or 1000 books on any topic, they take no more shelf space if clast minutely, and work is dun once for all. When larj accessions cum, even if a century later, this number wil not hav to be alterd. A library having but 20 books on Education myt think it unwize to uze the ful skeme, but the whole 20 wud go on a singl shelf, and take no more room, and the Index wud refer more exactly to what was wanted. Number of books yu hav on any subject has in this sistem no special weight. In relativ location, any number of consecutiv topics without a book wastes no space on shelvs or in catalogs. Numbers ar merely skipt. This not only does no harm, but has great negativ value, as looking for a number and finding it blank or skipt shows that yu *hav nothing on that subject* — information 2d in value only to finding sumthing, for one need no longer serch.

The practical objection to close clasing is that it givs a longer number, when this is uzed to charj by in a lending library. In a reference library ful subsections shud always be uzed. Where short numbers ar imperativ, giv ful clas number on another part of the bookplate, not to be uzed in charjing, but as a gyd to contents. Thus when a clasifyer has once examind a book and found out just what it is about, he records it to benefit others.

Bilding numbers

Jeografic divisions In dividing by cuntries according to note 'Divided like 930–999', found so often in Tables, ad only the number following initial 9, for this 9 means not locality but simply clas 9, History; e. g. 942, history of England, analyzd is 9 history, 42 England (4 Europe, 2 England). If jeolojy of England is wanted, ad to 55 (jeolojy number) 42 (number for England) and yu hav 554.2. History of N Y state is 974.7, of which 747 is locality number; 353.9747, number for N Y state administration, is bilt by ading to number for state administration, 353.9, number for N Y state, 747.

Languaj and literature In 890, where directed to 'divide like 490', note that 890, Minor literatures, and 490, Minor languajes, correspond exactly, so that only figures following 49 ar to be aded to 89 to bild a minor literature number; e. g. Polish languaj is 491.85; ading 185 to 89, Minor

literatures, givs 891.85 Polish literature. In brief, to form literature from filolojy numbers substitute 8 for 1st figure, 4; e. g. Sanskrit languaj 491.2, Sanskrit literature 891.2. Under 490, the filolojic divisions (dictionaries, grammar etc.), and under 890 the form divisions (poetry, drama etc.) shud be uzed only when clas number represents a *specific* languaj or literature, e. g. 491.7 Russian, but *not* 497 North American, awaiting further division by languaj.

If directed to 'divide like main clasification', as in 016, number for required subject is aded exactly as it stands in Tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in Tables must be dun with great care, or confuzion results. Many uzers, fascinated with the posibilities of the sistem, make combinations more injenius than useful; e. g. 'The horse's foot and how to shoe it' was once markt 636.1682, i. e. blaksmithing number, 682, aded to horse number, 636.1. Horseshoeing is now in Tables as 682.1, while 636.168 means American ponies.

Often a clasifyer ads a figure to show sum distinction. It seems short and desirabl, but later he may find he has shut himself off from uzing sum other division greatly preferd. For his personal aditions, letters or other simbols not numbers shud be uzed. Every aded simbol must be clearly writn in Tables and Index. Never trust memory for decisions.

See also p. 35[1]–38[1], Letter or simbol notations for chanjes or aditions.

Book numbers

The call number of a book (number by which it is cald for) jeneraly consists of both clas and book numbers. The same clas number applys to all books on same subject; the book number distinguishes each individual work from all others in that clas, and is the same for all volumes or copies of same work. When a specific volume is wanted the number for that volume must be aded to clas and book numbers to complete the call number. Most important methods of assyning book numbers ar:

Author numbers Invention of translation sistems by which a name is represented by its initial, with remaining letters translated into numbers, e. g. Freeman, F85, has led most libraries to arranje books under each clas number alfabeticly by authors, or in local history by towns, or in individual biografy and bibliografy by biografees and bibliografees. This keeps together all works by same author or on same town or same biografee, etc. and even in larj clases enables one to find any book redily without consulting catalogs. One great advantaj is that same author has same book number in every subject; i. e. figures ar 'significant' like our clas numbers, and translate themselvs into names. Great practical nemonic convenience results from this form of book number. Most widely uzed of these translation sistems is C. A. Cutter's, known as 'Cutter numbers', publisht by Library Bureau.

Special author tables A 2d method, for authors having special numbers, e. g. Shakspere, 822.33, or Milton, 821.47, is uniform use for such authors, of book numbers A-N, with O-Z assynd on basis of their individual works, as ilustrated under 'Special author tables', on pajes following Relativ Index.

Time numbers A 3d arranjement of books under clas numbers is cronolojic by date of 1st publication. Its advantaj is in presenting historic development of subject, the book writn erliest being on the left, the latest work on the ryt, and then of any givn book it is evident that all those on the left wer writn before it, all those on the ryt after it. In syence and useful arts this has special value, while in literature author arranjement is better. W. S. Biscoe's translation sistem of dates givs a more compact and satisfactory mark for year than date writn in ful. (For ful explanations and table see 'Biscoe time numbers', on pajes following Relativ Index)

Accession order A 4th arranjement, simpler but otherwize les desirabl, is in accession order; 1st book put in a clas being numberd 1, the 2d 2, the 3d 3.

It is entirely practicabl to uze 2, 3 or all 4 of these methods at same time in same library, one peculiarity of the sistem being the eaz with which it may be adapted to almost any special circumstances. The advantajes of the cronolojic numbering ar most markt in syence and useful arts the alfabetic is best in clases where names of authors or subjects outrank dates; and special author numbers in cases where clas number alredy indicates author, so corresponding indication in book number wud be useless duplication; while the old accession-order plan is good in special colections which must be kept separate and ar no longer aded to, since here the extreme simplicity of 1, 2, 3 order is secured with no sacrifice. It is stil better, if this last method is uzed, to adopt A, B, C, insted of 1, 2, 3, as 26 insted of 9 books may be markt with 1 caracter, and chiefly becauz it is hyly desirabl that each book number begin with a letter, which can not be mistaken for end of clas number if writn on same line; e. g. 1st book under 513, if numberd 1, myt be so writn as to confuze with subsection 513.1, but 513A cud not be misinterpreted. If figures ar uzed, take care to write them as a fraction or with separating dash; e. g. $513\frac{1}{}$ or 513–1.

Variations practicabl in adjusting to special local requirements

Sum uzers assume that adopting Decimal Clasification and Relativ Index carries with it other parts of the sistem uzed by the author at Amherst, Wellesley or Columbia colejes or in New York State Library. In fact, the plan in each differd sumwhat from all the others, and many of the thousands of public and private libraries now uzing it hav adopted stil other variations; for special constituency, circumstances and resources of each library must be considerd in deciding what is best for it. This decision

shud be made by one familiar, not only with the library and its needs, but also with all methods of any merit and with comparativ eaz and cost of introducing them into any givn library.

Cautions Having decided to adopt this sistem in its *decimal* form as workt out and printed, determin whether to adopt certain variations, noted in 1–5 below as practicabl, and in sum cases useful and desirabl. The inexperienst uzer is very likely to feel entirely competent, without reading more than a singl paje of the Tables, regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations, to institute a series of 'improvements'. Experience shows that nothing cud be more disastrus. It seems a simpl matter to put a topic a line hyer or lower, but in sum cases this may affect over 100 Index entries, and there is no posibl way to be sure of correcting them except by examining each of 43,000 heds. Proposed chanjes, carefuly studid out and submitted as improvements, ar frequently shown by our old records to hav been adopted and uzed in the exact form proposed til unforeseen considerations forst us to chanje to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting voluminus records of previus experiments.

Even sum who hav uzed the sistem longest hav been misled into adopting chanjes which on tryal they wer compeld to reject, going bak to orijinal form at cost and confuzion of 2 chanjes. In so apparently simpl a thing as introducing subdivisions on blank numbers, mistakes ar often made; and when too late to correct them the makers regret their neglect to consult the editor and secure advice and cooperation of those most familiar with the manifold interrelations. Even wer the independent divisions equaly good, they do not agree with those which wil later be printed in Tables and Index, so that every copy of the printed skeme wil hav to be corrected in manuscript before it is uzabl in that library. The only safe rule is to *make no chanjes or subdivisions* without submitting them to the editor, who wil gladly advize on such matters without charj, not on ground of any superior wizdom, nor even becauz of larjer experience in this special work, but becauz in this way only can it be lernd if corresponding subdivisions hav been alredy assynd sumwhat differently.

A uzer who adopts printed form avoids criticizm sure to be aimd at any posibl skeme. The moment he makes 1 'improvement' he must defend all his heds or alter them to suit each critic. Much time is saved by saying that the skeme is uzed **as printed,** and blunders ar the author's, not the uzer's. A list of chanjes made by others without consultation was writn for this caution, but is omitted lest it seem invidius. It ilustrates how eazy it is for able men to make what no one questions after explanation to hav been outryt blunders, in 'improving and ading to' the printed skeme. We ar always grateful for sugjestions from anyone, and, having alredy spent so much time in efforts to improve this sistem for the common good of all uzers, invite cooperation of those interested in completing needed subdivisions and eliminating any errors that remain in either Tables or Index.

Sugjested variations

The following brief notes show the most important variations found practicabl in the 'relativ index and location sistem,' oftener cald the Decimal Clasification or 'Dewey sistem', or oftenest simply 'D C'. For its essentials see p. 11[6].

1 Letter or simbol notations for chanjes or aditions To protect other uzers from confuzion, the publishers insist, as entitled to by copyryt, that D C numbers shal not be printed with chanjed meanings or aditions, without sum clear indication of the fact in the number itself. If reazons which led to adoption of form printed ar not conclusiv to another, we wish to remove any obstacls to his use of the sistem with such chanjes as shal satisfy him. This can redily be dun by uzing a letter or sum other caracter than the 10 dijits, to mark chanjes; e. g. if yu wish a different set of subdivisions under any number, make it out to suit, and letter it a, b, c, etc. It wil arranje in its exact place and exact order without difficulty, and no other uzer of the sistem wil be confuzed by yur forms. In Index, cancel 1, 2, 3, etc. yu hav discarded, and write in a, b, c, etc. adopted. **Whenever yu uze our exact numbers, uze also our exact and universal meanings for them as indext.** For any aditions or chanjes of yur own, uze letters or simbols of yur own which can not be mistaken for ours, uzing, of course, our figures to the place where difference begins; e. g. if yu want a new heding next to 551.34, Icebergs, it can not properly go as decimal 1. Mark it 551.34a, and it arranjes as wisht. If yu wish to chanje a hed from one place to another, cancel it where it stands, and *leav that number blank* in Tables. Then insert the hed in its new place as abuv, as if it had never been in our Tables. Unuzed decimals ar often *alredy appropriated* for authorized subdivisions, tho they may not be printed til several editions later.

This plan of introducing letters or other simbols wherever each uzer pleazes, wil giv all needed freedom to the personal equation and desire for 'orijinality', and meet all real wants for peculiar clasification in peculiar cases.

Fiction In sum cases it is uzualy best to modify clas numbers by letters as abuv. In popular libraries half the circulation is often fiction. It is a great saving to omit clas number entirely and uze merely book number, it being understood that *no* clas number means 'fiction'. Sum libraries go stil further and for fiction omit book number as wel as clas number. Sum even omit book numbers in other clases.

Juvenils After fiction, great circulation makes juvenils a good place to economize, if they ar kept separate, as is uzualy desirabl in popular libraries. Books ar clast as if for adults (except that a short number may be uzed) J being prefixt to show their special caracter. This givs J alone as clas number for juvenil fiction; J942 is a child's history of England. These books ar arranjed in a paralel library by themselvs, so J942 cums between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

The separate J library can at any time be abandond by distributing J books amung the regular clases, either ignoring J entirely, or preferably by putting all J books by themselvs at end of each clas number. In former case, if shorter numbers hav been uzed for juvenils than for adults they shud be extended to correspond; in latter case, numbers may either be extended and the books shelvd at end of exact subdivision, or the shorter numbers may be retaind and the books groupt at end of entire section, e. g. *all* juvenil works on English history may be kept under short number J942 and shelvd after all adult works on English history, both 942 alone and 942 with subdivisions.

There ar thus 3 methods: 1, to hav a separate J library; 2, to hav J books by themselvs at end of each clas number; 3, to hav J books in alfabetic order amung other books on same subject. In this last case J is useful only to call attention plainly to their juvenil caracter.

Unless shorter numbers ar uzed for juvenils than for adults the same marking is uzed for all these plans, and one can be chanjed to another by simply distributing books the other way and teling attendants.

Biografy For this larj clas, opinions differ as to best treatment. Beside the plan printed in Tables the following methods ar widely uzed.

For *individual* biografy, i. e. that relating to a singl person (including books containing biografies of not more than 4 persons)

1 Put all biografies in one alfabet of names of *persons writn about*, uzing 92 for clas number, and indicating the subject or biografee by a Cutter book number; e. g. life of Grant, 92 G76. This is most compact for charjing, and is preferd in popular libraries of larj circulation. Insted of 92 for clas number, B is often uzed, but is les desirabl, since it has no lojical place in a numeric arranjement on shelvs and is sumtimes confuzed with the author's initial in fiction.

2 Distribute biografy as far as posibl to subjects it ilustrates, leaving, of course, under 920 the lives not bearing specialy on any subject; e. g. all lives of musicians go under 780 and its subdivisions, life of Wagner being 782.2 insted of 927.82 as in Tables. When 9 is uzed to indicate history of a special subject, 92 may be uzed for its biografy; e. g. 780.9 History of music, 780.92 Biografy of musicians.

Collectiv biografy may be clast in a singl group under 920, or by subject under 920–928, as in Tables, or distributed thruout the clasification, according to 2d plan givn abuv for individual biografy, subarranjement with any of these methods being alfabetic by author.

Paralel libraries This treatment of fiction, juvenils and biografy ilustrates the principl. Its other chief application is for languaj colections. Sum libraries hav a constituency not reading English, and so need a paralel library in Italian or Swedish, etc. This is most eazily made by simply prefixing languaj initial to clas number. If arranjed in one series of subjects this initial is ignored, or all books in the special languajes may be groupt under initial letters at end of each clas number. The

paralel library is made by simply putting together all books having same languaj initial and then arranjing by clas numbers. Initials uzed ar F, French, G, German, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, W, Welsh, A, Arabic, etc. Where only 1 languaj is so markt in a givn library, jeneraly only 1 letter shud be uzed, so as to avoid an extra letter in charjing; e. g. S wil anser for either Spanish or Swedish if uzed in only 1 sense. A prefixt letter may, however, hav been uzed with a different meaning, e. g. R for Reference, necesitating more than 1 letter for the languaj prefix, *even if only 1 languaj* is represented by the initial, e. g. Ru for Russian. This plan has proved very satisfactory in actual use.

Combining languaj and literature Same principl can be applyd also in combining each languaj with its literature, if it is preferd to abolish clas Filolojy, and make it simply an appendix to Literature; e. g. uzing 82f for English filolojy and ading filolojy subdivisions, English dictionaries wud becum 82f3, English grammars 82f5, etc. arranjed either just before or just after English literature, 820, 821, etc. and reverse wud hold true if a filolojist wisht to abolish Literature and make it an appendix to Filolojy. For a better plan see p. 39[2-8], Broken order.

Reference library To separate books most needed, the best plan is to mark R before clas numbers, and arranje books together as an R library. When books ar to go into jeneral colection again, draw a line thru this letter.

In same way it frequently happens that a jeneral private library is givn on condition that it be kept together; e. g. Phoenix library of Columbia University. This has P prefixt to clas number, and thus is a paralel library by itself. An initial is better than * or similar mark, for it helps memory and is just as brief. Same plan applys if the library has an 'inferno' for books not uzed without permits, or for distant rooms where books worth keeping but seldom cald for can be arranjed in a paralel storaj library.

Stil another provision is made in 080, 8 being regular number for jeneral colections (as in 508, 520.8 etc.), for those special libraries which can not be separated becauz of binding or conditions of gift; but insted of the 3 figures in 080, a singl letter, as described abuv, indicates the special colection, and it is eazy to lern location of the few special colections of any one library.

Omission of initial 0 in the clas 'Jeneral works' has been tryd; e. g. 51 insted of 051 for an American periodical, but is not advized, for the eye gets so in the habit of reading as *Syence* any number beginning with 5, that there is a mental hich if, e. g. jeneral periodicals ar writn 51, etc. insted of 051, etc. Another reazon is that Institut International de Bibliographie (see p. 40[3]) regards as neglijibl a final 0 and uzes the 1 and 2 figure numbers as we uze those same numbers fild out by 0 to 3 figures, e. g. 1 for filosofy, like our 100, 22 for Bible, like our 220. Also in clasification it sumtimes happens that the 1st 2 figures ar obvius at a

glance, but time must be taken to determin the 3d. It is convenient to write these 1st figures, but if a mathematical book receivs its 1st 2 figures (51), this unfinisht number is likely to be confuzed with the 2-figure number 51. This danjer may be larjly avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2 Contractions for specialists The sistem is often uzed by specialists for very minute work, where decimals run out to 6 or more places. Theoreticly it is better to write all these figures, thus showing relation to the universe of knowlej, but there is no practical gain to justify the labor if a great quantity of slips must be numberd. A specialist working on 'Swedish poetry of the aje of Gustavus' can uze a singl letter insted of the ful 839.715 and save 5 caracters in numbering each note; or a dash may be writn for all but the last figure, thus '— 5'. A body of such notes can be inserted together in their place in an index at 839.715, with a colord c rd to mark the special groups, with litl danjer of confuzion. Stil a stickler for theoretic completeness wil write a ful index number for each separate slip.

3 Use of alfabet or cronolojy for final subdivisions While our plan is decimal as distinguisht from 'dictionary' we *always alfabet* wherever that is more useful. Indeed, the main feature of our plan is its alfabetic Relativ Index. Frequently in minute divisions it is economy to arranje alfabeticly or by dates without uzing a translation sistem. This is specialy true in index rerums and notes of specialists. After numbers hav been uzed as far as that is the most useful form, then either the name chosen for hed or the year can be inserted at the end; e. g. towns in a givn state, individual birds or insects cuming under one number, names of men writn about in biografy, etc. Sum may prefer to adopt this plan in places where we hav chosen a grouping; e. g. in chemistry, to put all metals in one alfabet under 546.3, insted of uzing numbers 546.3–.99. If this chanje is wisht, a more complete one wil probably be better: put all elements, metallic and nonmetallic, in 1 alfabet under 546. Such use of the alfabet cauzes no confuzion with the Index, as it simply subdivides more closely, unless, as in the case of 546.3, the alfabet replaces heds alredy printed. In this case, cancel all subsections in the Tables by drawing a line obliquely thru heds discarded, and mark in marjin 'Alfabet by elements,' e. g.

546.3	Metals	Alfabet by elements
~~.31~~	Alkali group	
~~.32~~	Potassium	
~~.33~~	Sodium	
~~.34~~	Lithium	
~~.35~~	Rubidium	
~~.36~~	Caesium	

Then find each of these heds in Index and cancel all figures after 546.3, e. g.

Potassium, inorganic chemistry, 546.32
Rubidium, " 546.33

This plan has special value in this place, as new elements ar discoverd from time to time, and can redily be inserted in alfabetic place. Stil many chemists think it valuabl to hav similar metals groupt together for convenience of study, and to cover books writn on the group as a whole, and also think it important to hav a number for rejected elements, becauz literature and references about them remain, and must be provided for. New elements may be inserted, as explaind on p. 16[5].

4 Broken order Another common and often desirabl variation for shelf arranjement is to break sequence of numbers, to get most-uzed books nearest delivery desk. Theory keeps numbers in strict sequence; but a hyer rule everywhere is 'sacrifice any theory for a substantial gain'. Practicaly there ar few libraries where it is not best to break order of clases. Often divisions ar best arranjed out of numeric place; e. g. 520 Astronomy may be wanted in a room accessibl at nyt; fiction, juvenils and biografy ar always wanted near the delivery desk in a public library, and in strict order ar as likely to cum at the most distant point. Numberless local reazons may make a broken order desirabl. There need be no hesitation in adopting it if enuf is gaind, but there shud be charts clearly showing where each division starts; e. g. after 430 'Preceding 830'; after 520 'In observatory', it being necesary to specify room for books entirely removed from jeneral library arranjement. The summary of 100 divisions is furnisht by Library Bureau, on celluloid charts, to show location. Opposit each division shud be markt its beginning on shelvs, and it is eazy to vary the order as much as desirabl, tho of course the nearer the divisions run in regular order, 000–999, the eazier it is for a stranjer to find his way about. Variations in order of sections ar les wize and seldom necesary, but if made, a wood or cardboard dummy in regular place shud hav markt on its side the actual location of any section removed.

This broken-order plan is best for bringing together filolojy and literature of each languaj without altering numbers or prefixing any letter. Let 420 be shelvd just ahed of 820, 430 ahed of 830, and so for all languajes, making the jeneral note that all 400s ar shelvd just ahed of corresponding 800s, and remembering that after main languajes 4 or more figures ar required to indicate languaj alone, so Portuguese filolojy goes between 868 and 869, Russian between 891.69 and 891.7, Bohemian between 891.85 and 891.86, etc.

5 Pro and con division of topics It is very useful in many cases to separate books on a topic with strongly markt sides, so either set of views and arguments may be seen by itself. This has been dun in sum cases by subdivision, e. g. 337 Protection and free trade. In others it is equaly useful, and can be indicated by an aded mark, e. g. 324.3 Woman suffraj. The number may be uzed for jeneral works, giving facts etc. and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, ar too long for a

circulating library to uze in charjing but may be disregarded for that purpose if book numbers ar so assynd as to distinguish. In reference libraries, on cards, etc. most wil prefer to write out *pro* and *con*, to mark the 2 groups. The order on shelvs is, of course, alfabetic, i. e. 324.3, 324.3c, 324.3p; or if + and — ar uzed, the uzual order is followd: +, —.

These 5 notes sugjest the ranje of variations which may be made, and ilustrate D C adaptability to widely different conditions. For book numbers, which decide the order of material after it is groupt into its final clases, see p. 32[5]–33[7].

Bibliografic modifications

After study of all other availabl sistems the Decimal Clasification was adopted in 1895 by the newly organized Institut International de Bibliographie (known as I I B) as best adapted for its projected universal subject bibliografy to cover ultimately all subjects in all languajes in all periods of the world's history.

Determining factors wer:

1 Decimal Clasification was of topics, independent of languaj or exact sinonim by which exprest

2 Its notation was in itself the only international languaj, since it consisted solely of arabic numerals, uzed all over the world

3 Its decimal principl allowd indefinit intercalation

Overdetaild as the Clasification alredy seemd to many librarians, lak of subdivision was the Institute's 1st difficulty and it urjd us at once to enlarj the Tables. State Library duties at that time made concentration on this imposibl, but we promist cooperation and criticizm if I I B wud draft required extensions. When its remarkably rapid work precluded even adequate criticizm, it was authorized to publish its tables and assured that the American revision wud vary from them as litl as practicabl. At Geneva in 1924 the harmonizing of the American and European editions was agreed on and to D C editor was delegated the very extensiv work of checking the variant forms and recommending which shud be kept, a work which is now wel under way.

Obviusly, bibliografic and jeneral library use ar so different that in sum cases what is clearly best for real needs of skolarly specialists, where any simbols can be uzed on index cards, wud be quite impracticabl for a public library, which must hav simbols that can be markt on the bak of books, redily uzed by the unskild public in writing call slips, and rapidly handld by low-priced runners and yung clerks. This difficulty can, however, often be obviated by allowing alternativ forms.

I I B has devized and uzes injenius simbols, expressing many interrelations and greatly increasing numbering capacity. But these new simbols

ar tho't by many too complex for ordinary shelf or catalog use, tho 25 years use by I I B with unskild clerks has proved that this objection is more fear than result of fair tryal. They ar givn here broadly for personal notes of specialists and other close clasifyers, to whom their vast practical advantajes wil strongly appeal, and as a key to notation on I I B bibliografic cards. Elaborate details and explanations ar in *Classification décimale*, Brussels, 1905, of which a new edition is announst for 1927. Obviusly these simbols allow subdivision of the same number in many different ways without confuzion.

The most important of these devices ar *3 Relation syn* and *6 Place syn* and their use in libraries where they hav been tryd has proved that it is entirely practicabl, even for marking books.

The wide and ever-growing ranje of application of certain subjects makes it imposibl to subdivide satisfactorily by assyning definit numbers, but use of colon to show relation between 2 subjects provides an automatic method which can be uzed with any subject for unlimited subdivision. (For ilustration see note under 150 Sykolojy.)

Use of ( ) round a local number provides an automatic method of local subdivision for any subject, as there may be need in an individual library, while the simbol shows instantly the *local* nature of the subdivision.

1 Accretion syn + This simplest of simbols, equivalent to 'and', indicates exactly what it sugjests, that the articl so numberd treats of all subject numbers connected by +; e. g. 637 + 614.32 a work concerning dairies and also on inspection of dairy products.

2 Cupling syn - This is uzed for cupling to a subject a series of subdivisions common to a group of subjects, as 400 Filolojy (e.g. 45-3 Italian dictionary, 45-4 Italian sinonims, 45-5 Italian grammar; 46-3 Spanish dictionary, 46-4 Spanish sinonims, 46-5 Spanish grammar), 800 Literature (85-3 Italian fiction, 85-4 Italian essays, 85-5 Italian oratory; 86-3 Spanish fiction, 86-4 Spanish essays, 86-5 Spanish oratory), 546 Inorganic chemistry (546.51-3 Oxids of led, 546.51-4 Sulfid of led, 546.51-5 Chlorid of led; 546.56-3 Oxids of copper, 546.56-4 Sulfid of copper, 546.56-5 Chlorid of copper; 546.57-3 Oxids of silver, 546.57-4 Sulfid of silver, 546.57-5 Chlorid of silver). It shud, however, be uzed only where such use is specificly mentiond in the Tables, as confuzion wud otherwize result. This syn is so similar to that commonly uzed for 'to and including' that when it is uzed with Institut meaning it is advizabl to uze word 'to' for the other meaning.

3 Relation syn : This is most useful simbol of all, as it involvs no chanje of number except omission of final o by those preferring shortest form. It indicates merely that subjects so connected ar *considerd in relation to each other*, thus affording means of expressing almost limitless interrelations: e. g. ethics in relation to fine arts is 17:7 (or, better, in ful 170:700). Vice versa, art in its ethical aspect is 7:17 (or 700:170); order of

numbers before and after colon depending on emfasis, or on subject with which they ar to be arranjed.

4 Form syn (0) Form or jeneralities ar exprest by a parenthetic number beginning with 0. This is further subdivided as follows:

(0:) Form simbol; e. g. 335(0:843) means Socialism treated in form of a French novel.

(00) Subdivisions peculiar to a subject; e. g. for history it means sources. It is further subdivided and in sum cases modifyd by a hyfend figure; e. g. 9(44) (001-3) means *Catalog* of *official* sources of French history, (001) meaning official sources and -3 meaning catalogs, indexes, lists etc.

(01)–(09) ar the same as our regular form numbers 01–09. Obviusly we can not replace our long establisht simpl form numbers by sumthing so much more complex that it is impracticabl for shelf use.

5 Universality syn ∞ The mathematical syn of infinity is uzed with place and time syns to mean 'Without limitation': with place syn (see 6 below) it means 'including all places', e. g. 9 (∞) History of all cuntries; with time syn (see 8 below) it means 'covering all periods', e. g. 9 (∞) " ∞ " History of all cuntries at all times.

6 Place syn (3)–(9) These replace our regular cuntry subdivisions found in 930–999, but do not conflict, as I I B merely leavs D C 930–999 vacant, and writes History of France 9(44) insted of 944. Other auxiliary place numbers indicating jeneral rejion, direction, jeolojic place, prehistoric time, etc. ar also provided in place curvs.

7 Languaj syn = This syn preceding languaj numbers as found in 400 Filolojy, indicates subdivision by languaj; e. g. 523.5=9185 means a work on meteors, in Polish, 91.85 being filolojy number for Polish languaj in 400.

8 Time syn " " Numbers denoting time division ar writn in quotes. I I B skeme givs an elaborate time-division sistem based on exact dates; e. g. " 1922. 12. 11 ", meaning year 1922, 12th month, 11th day.

9 Jeneral points of view syn 00 Each of the following numbers for point of view (except 005) has also a series of subdivisions:

001 Speculativ: idea, purpose, plan etc.
002 Realization: execution, construction etc.
003 Economic: industrial production, cost and sale prices, etc.
004 Servis and use: workings, administration
005 Equipment and apparatus
006 Bildings and establishments: details of organization and servis
007 Special personnel

10 A to Z Alfabetic arranjement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these simbols in clas number may be varid by uzers to produce any special arranjement wisht, but unless distinct notis of this is givn, sequence is arbitrary in the following order:

( ) " " = : - A-Z

e. g. 9(44)"17" = 2 History of France in 18th century, writn in English

Other uses

Tho this sistem was devized 1st for library catalog and shelf arranjement, 54 years hav developt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this clasification has been found a great laborsaver, whose practical usefulness has exceeded the most sanguin hopes of its erly frends.

Bookstores The plan is a great convenience to both dealers and customers, when applyd to miscelaneus stok. Very often a much wanted book, specialy if not recently publisht, is reported 'not in stok', when D C arranjement by subject wud hav reveald its place at once. Specialists often find on shelvs books they wud never hav orderd, but ar glad to by after examination. Experience proves it profitabl for a dealer to arranje his books so each person may find what he is interested in without examining entire stok.

Offis files A great file of papers is like a library in miniature. Experience the world over proves that while alfabetic and numeric sistems ar invaluabl for many purposes, complete usefulness demands close clasing as material grows. The best plan is to combine simplicity of numeric and utility of clast as in this Decimal Clasification and Relativ Index uzed by most libraries. The simplest posibl printed index of 43,000 heds tels instantly by what number to mark or to find any paper. Insurance is markt 368. This means: clas 3, Sociolojy; division 6, Associations and institutions; section 8, Insurance. Fire insurance is 1st subdivision, so every paper about fire insurance is markt 368.1 and goes in the drawer in numeric order, where it can instantly be found thru the printed Index.

54 years use in a score of cuntries has proved this numeric sistem, with its Relativ Index, a marvelus laborsaver. Clasification is a necesity if all material on any givn subject is to be redily found. The labor of making one's own clasification is uzualy prohibitiv, if wel dun. By adopting the skeme in jeneral use by libraries this labor is saved and numbers ar in harmony with those of thousands of other catalogs and indexes in which the same number has the same meaning; for, as pointed out at a recent international congress, these numbers ar the only international languaj of perfectly definit meaning amung all civilized nations; and also cheapest and quickest in application.

A successful man is uzualy a clasifyer and chartmaker. This applys as much to modern business as to syence or libraries. Hyer education differs

from elementary in studying not mere facts, but their *relations to all other facts*. Alex. Bain wizely said 'to lern to clasify is in itself an education'. The man of much business or affairs must study every problem in its manifold relations; i. e. must clasify and make charts of his results. Without these he is like a sailor in stranje waters, sooner or later shiprekt unless he uzes charts to find safe channels as wel as to avoid roks and shoals. A larj business or work unclasifyd or uncharted is not a worthy organization but mere material from which a clever brain may construct one. It differs in efficiency from the ideal as a mob of men differs from a wel disciplind army. Piles of brik and mortar ar not a templ any more than heaps of typ ar Shakspere's works, tho if 'clasifyd' and set, each in ryt relation to the rest, the transformation is bro't about.

Scrapbooks The plan has proved the best for keeping newspaper clippings. Uze manila sheets of uniform size (we find 20x25cm best) Write clas number of subject in uzual place on paje, and mount clippings on sheets as in a common scrapbook. These sheets ar arranjed numericly like a clast card catalog, sheets of each clas being further arranjed, when desirabl, under alfabetic subheds. When one sheet is ful, insert another at the exact place. Thus perfect clasification is kept up without blank sheets, and at smallest outlay of money and trubl. Scraps thus mounted ar shelvd either in manila pamflet cases or in patent binders, or ar kept in vertical files.

Index rerums These ar best made on standard P size (7.5x12.5cm) cards or slips. Lyt weight catalog card stok is best for private indexes, etc. It costs only $\frac{2}{3}$ as much as hevy bristol, takes only $\frac{2}{3}$ room, and handls eazily.

Where durability and convenience of handling ar les important than cheapness uze common hevy writing paper. Novises often greatly diminish usefulness of the card sistem by uzing ordinary machine-cut cards or slips varying in hyt so much as to make quik and accurate manipulation imposibl. Extreme variation to be tolerated is 1 mm or $\frac{1}{25}$ inch. This wil be understood by placing a 7.4cm card between two 7.5cm cards. In rapid turning, fingers make a brij across taller cards and mis the lower one entirely. Cards must be accurately cut or they lose half their value and in many cases necesitate recopying material at a cost 10-fold greater than to hav thrown away imperfectly cut cards or slips at the outset.

Clas number is writn in upper left corner, any alfabetic subject hed follows at ryt, and notes fil card below. Cards ar then filed in order of clas numbers, the cards of each clas being further arranjed like scrap sheets, according to any alfabetic subheds.

Paper the size of scrap sheets, 20x25cm, arranjed and stored the same way may be uzed insted of cards. This has the advantaj of a ful letter paje in syt at once, and holds over 5 times as much as card. While the sistem can be applyd to slips or sheets of any size, there ar literaly hundreds of accessories and conveniences exactly adapted to these 2 sizes, which ar uzed much more than all others combined; so it is folly to begin on another size, and lose the advantajes of this uniformity. If intermediate sizes must be had, the best ar Billet 10x15cm, Note 12.5x20cm, and Ms 15x25cm. Often uzers of sum other size finaly find it profitabl to chanje to either P, 7.5x12.5, or to L, 20x25cm, even at cost of rewriting many notes.

After 50 years use of P size, countless millions of cards ar in catalogs and indexes in scores of cuntries, so it wud be quite imposibl to chanje from 7.5x12.5cm. But recent study and experiments hav shown that sheet or room proportions ar most pleazing in ratio of 1 to square root of 2, or about 5 to 7, i. e. ratio of the side of an equal-side triangl to its hypotenuse. An immense practical advantaj is that this is the only ratio where continuus halving givs always the same ideal proportion. This results in markt economy in cutting sizes from larj standard sheets. The favorit letter sheet is 19x27cm. This fits most vertical and other files. We now uze it insted of 20x25 and 15x25. Half this size is a pleazing small quarto, 13.5x19, and its quarter is a very convenient pocket size, 9.5x13.5cm. These replace our old Note and Billet sizes.

Note books ar best in loos-leaf form. A much poorer method is to take a bound blank book, and assyn clas numbers in order, giving about the space it is tho't each wil require, and, when pajes so assynd ar ful, note at bottom where rest of the material may be found. This has all objections of old fixt location as compared to relativ, and wil hardly be adopted by any person who has ever seen loos-leaf simplicity and economy.

Scores of devices for convenient handling and storing of these slips and sheets and of pamflets ar manufactured. The ful descriptiv and ilustrated catalogs of Library Bureau giv details.

Topical indexes Clas numbers ar uzed to index books red. Simpl numbers take the place of a series of words, and results can be handld, arranjed and found much quicker. Such entries may be kept separate or combined with index rerums.

Advantajes for making topical indexes of colected works, periodicals, transactions etc. wil be evident to every indexer or librarian. These consolidated indexes may be arranjed together with the card catalog of the books, or by themselvs, as seems best in each case.

These ar only a few of the sistem's varid applications. Enuf hav been mentiond to show its wide adaptability to wants of librarian, student and business man.

Separates

There is growing use by specialists who wish very detaild tables of their own subjects, but only so much else as wil show perspectiv of these subjects in the jeneral skeme and provide for broad clasification of other material on the same plan. As fast as demand wil cover expenses, any subject elaborated wil be publisht separately with jeneral explanation,

directions for use, 3-figure tables for other subjects, and ful index; e. g. normal skool libraries specializing on education wil want the elaborate 370 skeme but may not need to carry clasification of other subjects beyond 3 figures; electric enjineers may hav no use for 370, but wil need all details of 621.3, with only 3 figures for other subjects.

This brief account has probably faild to meet sum objections which may be raizd and could eazily be anserd.

Tho much elaborated and in sum few points alterd, the essential caracter of the plan has remaind unchanjed from the first. Revision and expansion constantly in progress involv many new interrelations. As extensiv advance testing of new skemes is not always posibl, practical applications ar sure to develop unnotist faults. Clasifyers ar therefore askt to uze new tables criticaly and report defects of any kind, with proposed remedies and any needed subdivisions, also any heds needed for the Index. All such criticizms ar a decided help and favor.

Aknowlejments

The labor on Clasification and Index has been wholy beyond appreciation of any who hav never attempted a similar task.

In his varid reading, correspondence and conversation on the subject, the author has doutless recievd many sugjestions and gaind ideas which it is now imposibl for him specificly to aknowlej. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he copid nothing from it, more than any other singl sistem stimulated his study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in sum respects resembld his own, wer not seen til all essential features wer decided on, tho not givn to the public. In filling the 9 clases of the skeme, the inverted Baconian arranjement of the St Louis Library was followd. The author has no wish to claim orijinal invention for any part of his sistem where another has been before him, and wud gladly make specific aknowlejment of every aid and sugjestion wer it in his power. Tho at its start a litl book, it came not forth except by grievus labor.

Much valuabl aid has been renderd by specialists, who hav assisted greatly in developing tables. Amung these ar many wel-known skolars, and to all most cordial aknowlejment is made. Without such assistance, the present development cud not hav been attaind, for many minds wer necesary to supply teknical and special lerning absolutely essential in filling minute heds. Indeed, in many subjects the author's share has been limited to modification necesary for teknical adjustment to his skeme, of material prepared by specialists. To many prominent librarians we ar indetted for valuabl sugjestions and appreciativ criticizm.

While these frends ar in no way responsibl for any remaining imperfections, they shud hav credit for many improvements made in these 54 years of revision, during the 1st 3 of which the skeme was kept in manuscript, that its many details myt be subjected to actual tryal, and modifyd where improvement was found practicabl.

We ar under deep obligation to Institut International de Bibliographie for its great volume of valuabl work, covering almost the whole ranje of subjects, and also for its advice and criticizm during progress of our own expansions. To Dr C W Andrews, John Crerar librarian, Chicago, and to American Library Association clasification committee, of which for past 10 years he has been chairman, we ar greatly indetted for interest and advice.

W S Biscoe From 1st publication to the present, the most extended and valued assistance has cum from my colej clasmate, associate and frend, Walter Stanley Biscoe, my 1st assistant in Amherst College Library, in charj of which he succeeded me, resyning to accept again in 1883 the place next me in Columbia College Library, and again resyning in 1889 to becum librarian in charj of clasification and catalogs in New York State Library. This book is witness to the rare unselfishness with which he has givn time taken from rest and recreation to this work, in which he shared my interest and faith.

May Seymour Except a year in charj of clasification in the Osterhout Library she was with me 34 years, from her entrance to the 1st Library School clas in 1887 til her deth, June 14, 1921. At New York State Library, clasification was her department til she was made director's assistant. For 32 years every item of work on new editions past thru her hands. For each of editions 4–10 she did all editorial and much constructiv work, secured expert cooperation, cald attention to faults or omissions, and sought the best availabl compromize where doctors disagreed, devoting to this vast labor rare skolarly industry and a loyalty for which no words of thanks can be adequate. She shared my faith in its immense usefulness, did the hardest work, and deservs the gratitude of all who profit by this invaluabl laborsaver. I often askt that her name appear on the title-paje of the book to which she gave so much, but she persistently refuzed.

Her place as editor was taken by one of her own choosing, Dorcas Fellows, who more than anyone else had workt closely with Mis Seymour for 25 years, and who wil giv future editions the benefit of cumulativ experience in which she so larjly shared. D C uzers ar congratulated that Mis Seymour's position is held by the one whom she herself chose as best adapted to carry on her work. For 5 years past her hedquarters hav been in New York State Library at Albany, which has long been regarded by many as D C's library home, but recent developments in relations of American Library Association, Library of Congress and Decimal Clasification hav resulted in an invitation from L C to D C to make its home henceforth at that Library, where, most appropriately,

D C's servis to American libraries, which is the chief factor in its work, wil be coordinated with undertakings previusly instald by the national library, extending stil further the latter's alredy great servises to the libraries of the cuntry at larj.

Future of D C

Mis Seymour had a stedily growing wish to make D C a permanent force for education, by greatly improving its ful, short and outline editions, and by printing cheap special editions (indext) for many prominent divisions; e.g. education, medicin, enjineering, agriculture. As a memorial to her, all copyryts and control of all editions hav been givn to Lake Placid Club Education Foundation, in establishing which she had been warmly and activly interested, and which was charterd by the University of the State of New York, Jan. 26, 1922, with these objects:

'as an educational institution, to restore to helth and educational efficiency teachers, librarians and other educators of moderate means, who hav becum incapacitated by overwork; to establish, maintain and aid skools, libraries or other educational institutions, specialy at Lake Placid; and to institute, organize or foster other movements to advance public welfare thru education, by means of the Foundation pres, conferences, forums, addresses, gyded reading, and similar ajencies'.

To this Foundation was at once givn all voting stok and surplus of Lake Placid Co. which owns the 10,000 akers and 391 bildings of Lake Placid Club, thus assuring permanent financial support, which has alredy been further increast by gifts and bequests from interested frends. Under Foundation auspices future editions of D C wil be publisht, on absolute condition that entire reciets abuv necesary expenses be uzed forever solely for improving D C and extending its usefulness, thereby preventing posibility that the work shud ever be made a source of either individual or institution profit. A committee on D C, consisting of the most interested Foundation trustees, in consultation with committees of American Library Association and Institut International de Bibliographie, wil insure observance of the abuv condition.

D C has becum an international laborsaver. It therefore justly belongs to its uzers as a whole. All who contribute to the stedy improvement of future editions may kno that they ar helping to make stil more useful a sistem which is so greatly helping stedily increasing thousands scatterd all over the civilized world.

MELVIL DEWEY

LAKE PLACID CLUB N Y
Dec. 10, 1926

Previus editions hav been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885, and Aug. 30, 1888; New York State Library, Dec. 25, 1890; Lake Placid Club, Ap. 10, 1911, Ap. 10, 1913, Oct. 1, 1915, Aug. 11, 1919, and Aug. 31, 1922.

SIMPLER SPELING REAZONS AND RULES

Reazons

Uzers of the Decimal Clasification ar entitled to kno why the author feels compeld to recognize practicaly the urjent claims for reform in English speling, by adopting enuf of many needed chanjes to call every reader's attention to the crying situation.

Many wil be annoyd and sum wil ridicule, but since 1872 I hav constantly studid, with very unuzual opportunities, the need and practicability of this reform. From its founding in 1876 at the Philadelphia Centennial, I hav been secretary of the Speling Reform Association. I servd several years on the advizory committee on speling and pronunciation for our greatest and best English dictionary, the Standard. While executiv offiser of the University of the State of New York, which has charj of all hyer education, I uzed my great opportunities for studying relations of speling to education. As a trustee and on its Executiv Board I hav shared activly from its orijin in Simplifyd Speling Board work, to which Andrew Carnegie gave (up to his deth) $10,000 to $25,000 yearly to spred correct knowlej about English speling and the great need for its improvement. I also servd on the National Education Association committee which, jointly with committees of the American Filolojic Association and Modern Languaj Association, during 10 years careful study made the key alfabet now uzed in the entire series of Standard dictionaries and in all books based on them. I was president of the Efficiency Socyety and also of the National Institute of Efficiency, and chairman of the committee of each on 'Efficiency in English writn and spokn'. It is therefore not an advocate of a new fad who speaks, but one who has for over 50 years kept in tuch, personaly and by correspondence, with others studying this matr, not only in many American states but also in Canada, Great Britain, India and Australia, and with many in non-English speaking cuntries.

In the past ½ century the most competent jujes hav cum to almost unanimus agreement as to imperativ need for radical improvement. On this point great universities, editors of all great dictionaries, leading educators of the English world, and recognized leaders amung students of English all agree. It has been publicly stated in larj meetings of languaj skolars that there was no recognized authority on English living who did not now believ in the urjent need of speling reform.

But as to the best *method*, there ar 3 skools with their varius combinations. All agree that there is only 1 entirely satisfactory goal; i.e. just 1 distinct syn for each of 40 distinct sounds, and just 1 sound for each of these 40 syns. But we now hav over 500 simbols or combinations to represent these 40 sounds. 'Shay' has only 2 simpl sounds. The

sh is speld in 20 ways and the *a* in 24 ways; i.e. this simpl word of only 2 sounds may be speld 480 ways in exact analojy with other English spelings. Webster's *Dictionary* says Shakspere's name was speld 30 ways; the Mainwaring family records sho 130 variations in their name; and A. J. Ellis made over 6000 spelings of 'scissors', all justifyd by dictionary analojies. Booker Washington told me that they wud not graduate from Tuskegee one who cud not spel and pronounce correctly this sentence: 'Though the rough cough and hiccough plough me through I ought to cross the lough'. We markt agenst each letr all the different ways of pronouncing it in English. By simpl permutation this showed over 16,000,000 ways in which this sentence cud be pronounst. Then we markt agenst each sound all the different ways of speling it and proved that there wer 66 decillion (66,000,000,000,000,000,000,000,000,000,000,000) ways of speling the sentence, each justifyd by analojy. Yet he was soliciting money to teach those poor colord students just which of this infinit varyety must be uzed, before he cud graduate.

One group believs in ading 6 new consonants for *ch*, *ng*, *sh*, *zh*, *th* and *dh*, and 11 new vowels; for as *c*, *q* and *x* duplicate *s*, *k*, *kw* and *ks* or *gz* we hav only 23 letrs toward the 40 needed in a perfect English alfabet. These letrs wud then be uzed with as invariabl meanings as arabic numerals and we shud be rid of varius devices for expressing sounds for which we hav no distinctiv letr; e.g. for the word 'fyn' we ad *e* to 'fin' and say that 'servil e' is silent where writn, but means that the *i* in erlier part of word is not *i*, but the difthong *ai*, combined of the sounds of *a* in 'ar' and *i* in 'it'. This is exactly analogus to writing 4537 and saying that 7 is silent but means that the 5 is realy 9, so the number is 493. We ar so uzed to these absurdities that we recognize their folly only when translating them into an exactly similar case with arabic numerals.

When these wer introduced into English the identical arguments put forward today agenst syentific speling wer urjd agenst the stranje arab caracters. Men said, 'Every child knows at a glance that V is five, but who cud understand ৬?' which they printed lying on its face.

No one questions that *complete* reform is best. Most skolars, however, think it impracticabl to do it all at once except amung a limited clas, becauz of difficulty of introducing new letrs on typwriters and for printers. We hav evolvd *i*, *j* and *y* from 1 letr, and *u*, *v* and *w* from *v*, and skolars say we shal in time, in same way, evolv the other new letrs needed.

The Simplifyd Speling Socyety of Great Britain attempts to solv the problem without any new letrs by uzing digrafs, as we hav alredy dun for *ch*, *ng*, *sh* and *th*. This has the advantaj that every typwriter and printer is fully equipt for new speling. It has the great disadvantaj that it lengthns many words and offends the eye much more than new letrs. It is as absurd to use *c* and *h* to represent a sound which has neither *c* nor *h* in it as it wud be to uze 74 to represent 5.

The Simplifyd Speling Board (American), supported by Andrew Carnegie til his deth and now working on its own resources, decided that the most practical plan was to list a limited number of most needed chanjes, to urj for immediate jeneral adoption, thus expediting the stedy growth toward syentific speling shown by the history of English. This method is eaziest but involvs glaring inconsistencies; e.g. it drops 1 of dubl consonants final in most cases, speling *mis*, *dol*, *tel*, but leavs *all*, *roll*, *hiss*, *off* becauz they wud be mispronounst by most peopl if shortnd.

1 word is speld perfectly like 'fel', perhaps the next is improved in only 1 silabl like 'acquisitiv', and the next may be worst of the 3 and not chanjed at all becauz we lak necesary new letrs, e.g 'functioning'. S S S (English) is *consistent*, for it spels each word foneticly, and this entire consistency appeals to sum so much that they endure longer awkward forms. S S B (American) offends the eye much les and *shortns* nearly every word it chanjes, but has the fault of incompleteness.

The 5 reazons for speling reform ar:

1 **Disgrace** of having what experts agree is the most illojical, unsyentific, unskolarly and altogether worst speling of any languaj in the world. While this greatly discredits the peopl that hav becum greatest in all history, it is least of the 5 reazons.

2 **Criminal waste of money** Careful count of many English selections shows that 15% or 1/7 of the letrs wud be saved by strictly syentific speling. This means waste of 1/7 total cost of everything connected with writing or printing English: stationery, time, composition, proofreading, paper, ink, preswork, binding, transportation. Not only ar these countless billions wasted each year, but there is enormus waste of time in hesitating as to ryt speling, consulting dictionaries, interrupting train of tho't, which fairly translated into money makes a staggering total.

3 **Criminal waste of skool time** A committee of expert educators, after munths of consideration, agreed that on the skool life of a child going from kindergarten to university we cud save 3 years if we cud eliminate speling books and everything connected with them, as is dun in completely fonetic cuntries, where speling is merely pronouncing a word letr by letr, so anyone can spel if he can speak. This waste is not alone in speling clases, for in all other studies speling is a continual handicap and wastes time not only in skool days but all thru life.

4 **Adling brains** Any student of child sykolojy knows that one cud hardly devize a more dedning process to a normal brain than to teach such words as *bone*, *done*, *gone*; *love*, *move*, *rove*; *lose*, *close*; or, worst of all, *Though the rough cough and hiccough plough me through I ought to cross the lough.* If the brain works normaly the child surely pronounces the vowels of the later words like the 1st. If 'though' is 'tho', surely 'rough' is 'ro' and 'cough' is 'co'. Long before he reaches the 8th word he is

redy to believ any absurd thing that is told him, and finds in English it is a matr of personal introduction to each individual word before there is any safety as to how it may be speld or pronounst. Ex-president Hill, of Harvard University, declared that no man ever had or ever cud spel and pronounce every word of English correctly, as it was beyond human posibility to becum intimate enuf with all the ½ million words in the latest dictionaries.

An associate city superintendent of skools in New York says:

'Next to lerning by imitation, the child must be taut to lern by association and analojy. He develops strength of mind by exercize of jujment. He must reazon from known facts in the solution of his litl problems. If he cums to a new printed word and halts, the teacher asks him to think of the oral word for which it stands. Having lernd that 'puff' and 'muff' stand for wel-known oral words, he is staggerd at 'rough' and 'enough', frequently uzed in conversation. Having lernd that these caracters stand for wel-known spokn words which he wrote 'ruff' and 'enuff' from his knowlej of 'puff' and 'muff' he is again confuzed when the teacher tels him that 'dough' is the speling of the wel-known word his mother uzes when speaking about bred-making, and that 'cough' stands for the malady so prevalent in the nursery during winter time.

The staje of the child's tuition during which all the similar incongruities of our speling must be masterd, occupys many years of skool life, and the process has wel-ny produced a disbelief in reazon as a means of lerning, and a total lak of confidence in inference. The result of falling into absurd and ridiculus situations thru exercize of his jujment appears in a hesitancy or fear of drawing any inferences upon data relating to other fields of knowlej. The child has lost faith in his own conclusions with respect to problems in arithmetic, biolojy, jeografy, history etc. To what extent of subject matr and time the skool child has sufferd irreparabl los, by failure to aquire confidence in exercize of his jujment as a result of his erly stultification during process of lerning to master speling of common words, may never be determind.'

5 **English as world languaj** Except for its scandalusly complex speling, English is betr fitted than any other languaj for universal use. It is practicaly grammarless. Pedants hav sadld us with an adaptation of Latin grammar which is almost useless. English has strength, simplicity, conciseness, capacity for taking words freely from other tungs, and best of all has the greatest literature the world has yet produced. Great German filolojists hav said 'it is lucky for the rest of Europe that the English do not realize that only its absurd speling stands between their languaj and erly world empire'. If we chek over the past 5 centuries the growth of English is astounding. Once Portuguese with its great Brazilian cuntry had sum chance, or Spanish with South America, but French came to be the languaj of diplomacy and more than any other the world languaj. Each century Germany, with its hy birth rate, gaind rapidly, and it soon past France. Russia with its countless millions came in as a leading competitor, but each century the most significant and remarkabl

growth was English. Long it was English, German, French; then English, German, Russian. The World war sadly handicapt all other competitors just when it greatly improved the position of English. 3/5 of the world's business mail is now in our languaj and this ratio grows yearly. Recent prominent French jurnals hav frankly publisht to their peopl *the need for every Frenchman to lern English* becauz it was alredy the world's business languaj and rapidly growing. The far-syted Carnegie made his great gifts for simplifyd speling for 2 chief reazons. He had givn the Peace Palace at the Hague, and recognized that a common tung was the greatest protection agenst war. His study of history taut him that race, color, relijion and jeografic location had les influence than a common tung in binding peopl together. Our fraze, 'He doesn't speak the same languaj', indicates hopelessness of agreement. He knew that no force wud contribute so much to world peace as spred of a common tung. He knew that this wud carry Anglo-Saxon ideals of liberty and tolerance thruout the world. The canny Scot knew also that it wud do more than all else combined to extend and strengthn our commerce.

Can anyone not blind to human welfare face these undouted facts and not feel *bound* to help on wherever practicabl a reform that many educators and publicists recognize as more important and as having more far-reaching results for America and the world than any other? The solution to most of our social problems lyz not in lejislation and police, but in *education of the masses* so that they wil *kno and prefer the ryt.* Such education must be *chiefly thru reading*, for the great mas of peopl can be in skool only long enuf to lern to take from the printed paje the author's meaning. Their real education must be not in the few skool days in youth, but all thru life and cuming chiefly from reading books, magazines and papers. Those who believ in working for a betr world must see that the 1st great step is to take from the path of education this greatest stumbling blok, for our speling not only wastes millions of years for every jeneration, but dedns and dwarfs childhood's brain by its gross absurdities. Can anyone not a selfish moral coward, knowing these facts, refuze to help get rid of the incubus by uzing at least a few of the shortr, betr forms in his own writing?

Disregard of pedants rules Thomas Jefferson said 'Where strictness of grammar does not weakn expression it shud be attended to, but where by small grammatical neglijences the enerjy of an idea is condenst or a word stands for a sentence, I hold grammatical rigor in contempt'.

Study of the past 5 centuries shows how greatly English has been simplifyd and improved and how absurd is the frequent comment of those ignorant of the life history of English that 'languaj can't be chanjed by conscius efforts of its uzers'. Of thousands of improvements made in the last 500 years every one was *uzed 1st* by sumone who saw the need and had the moral curaj to be a pyoneer and disregard rules of pedants of

his day. The greatest need of the English world is to simplify its languaj, specialy in speling, so it may be uzed by all nations. It is disgrace to be blind to the facts or to be too cowardly to uze sum at least of the needed chanjes and so risk criticizm or ridicule of the ignorant. The great function of English is to *convey author's tho't clearly and compactly to reader's mind.*

Arabic figures ar the simplest simbols known to man. It is silly to write out 'eighty-eight' or 'LXXXVIII' for the simbol 88, or to write 'three hundred seventy-eight' with 24 letrs when 378 is 1/8 as long and vastly clearer. Modern pressure for space and economy has led many prominent jurnals to substitute figures for words, but most of them stil fear the silly pedants dictum that figures must not begin a sentence. But figures ar winning their way, specialy in hedings, and our descendants wil wonder at our stupidity which so long prevented ful use of 1 of the world's greatest laborsavers. It is like continuing wigwag signals after invention of telefone and wireless.

37 years ago I advocated dropping useless *al* from *academical, grafical* etc. Persistent use was copid by others til now many of our best writers avoid the foolish *al* and get stronger as wel as shortr words. When ading adverbial *ly* we shud stil omit *al* and say *graficly, academicly* etc. In fact very few peopl pronounce the *al* in common speech. If we adopt Thomas Jefferson's standard we shud expedite greatly many needed improvements in our great mother tung.

Consistency This is the hobgoblin bugbear of litl minds. If a printer sets typs which realy shud be omitted or chanjed we often avoid expense of correction; for consistency with other spelings is les important than to break down by combined efforts of skolars and men of affairs the immense and stubborn, pedantic, foolish prejudis which sees sumthing sacred in the common speling of a word, while it thinks litl of constant variations in its pronunciation. Many who wud gladly help the cauz ar too busy with larj affairs to spend time in looking up rules. They shud simply spel betr whenever they think of it and not be trubld if on the next paje they forget to simplify. Hav Thomas Jefferson's curaj and hold pedantic consistency in contempt.

Conciseness We shud uze shortest forms of expression consistent with clearness. The 2d forms belo ar as much stronger and betr as they ar shortr:

this has been found to be an encurajment to good work — this encurajes good work
extend an invitation — invite
take into consideration — consider
the purchase of — bying
purchasing ajent — byer
a larj number of — many

due to the fact that — becauz
sum of $10,000 — $10,000
in a prudent manner — prudently
put in an appearance — appear
the twenty-eighth day of May in the year of our Lord one thousand eight hundred and ninety-nine — 28 May 1899 (*79 vs 9 typs*)
it is often the case that authors fail — authors often fail
giv the boundaries of — bound

Can it be dun? Absurd spelings like old 'fysshe' and 'dogge' for 'fish' and 'dog' ar slufing off useless letrs as a tadpole loses its tail, or as scum rizes from boiling sap in a maple orchard. Samuel Johnson in 1755 printed a dictionary which greatly delayd this natural process. Uzing neither rime nor reazon he embalmd in a book, with the weight of his great name, simply the usaj of London printing offises, which wer run almost wholy by Dutch and German printers, many of whom knew no English. He laid down as a sacred law, '*Uphill* with 2 ls' but '*downhil* with 1', and endless similar absurdities, at which we laf, but we hav made 'downhill' as difficult as his 'uphill' and stil look askance at one who spels 'til' as he does 'until'. Our greatest filolojist, William D Whitney of Yale, editor *Century dictionary*, wrote to our 1876 International Conference on Speling Reform a concise statement which has been very often reprinted, and I think never questiond by any competent authority: 'The true and sole offis of alfabetic writing is correctly to represent spokn speech'. Writing is attempt to convey to 1 at a distance (either in space or time) what wud be spokn to 1 close at hand, and therefore writn word shud represent spokn word as exactly as posibl.

Many chanjes wer merely corruptions resulting from slipshod pronunciation and lak of accurate speling, which wud hav been a relyabl gyd. Always many chanjes ar inevitabl in any languaj, as its words and idioms gro, dy or chanje, in pronunciation, speling and meaning. To continue old spelings after words hav chanjed is as absurd as to continue old price quotations insted of following the market. Englishmen ar conservativ but we hav substituted (tho only long after other nations) arabic numerals for the clumsy I, V, X, L, C, D, M; we hav a reazonabl and uniform way of writing music; we ar soon (again last of civilized nations) to uze international metric mesures, thereby saving countless millions. Practical business wil not much longer endure the costly tirany of the ½ educated and wholy unbusiness-like and inefficient pedant. So if the intelijent wil do their duty we shal expedite greatly the stedy growth of English toward simplicity, strength and efficiency. That infinitly desirabl process can be bro't about only by pyoneer adoptions by those who hav both knowlej of the great need and curaj to lead in a cauz bound to be unpopular with those ignorant of fonolojy and of the vitaly important reazons which hav

compeld all dictionary makers and great English skolars to declare in favor of simpler speling.

It is sumtimes askt why, if editors of the great dictionaries favor simpler speling, the dictionaries themselvs uze it so slytly (tho latest edition of *Webster* has 3000 more simpler forms). This anser is givn by the *Standard:* 'The chief function of a dictionary is to record usaj, not, except in a limited degree, to seek to create it'. Consequently it is not til a word or form has made its way into sumwhat common acceptance that it can look for dictionary recognition. Other cases where the interest which myt be expected *seems* to be lacking on part of simpathizers ar those of authors, educators and men of affairs, who, if left to follo their own jujment and preferences, wud gladly uze simpler spelings but who ar prevented from doing so by official connections or rules of their publishers.

Rules

We print belo 7 of the best known codes, for convenient reference when one wishes to decide with what chanjes he wil start his betr speling. All wil doutless uze the 12 words and most wil be glad to adopt S S B 30 words, chozen with great care by leading skolars as the best small beginning for the averaj man. These ar simply sampl words. S S B alfabetic rules represent expert jujment of distinguisht filolojists as to chanjes desirabl and practicabl to recommend for erly jeneral adoption. These ar followd by 18 rules, which comprize an erlier list and, forming the basis of the alfabetic list, larjly duplicate it but ar included here for convenience of those who wish a selection of the most important. A compact dictionary list of all English words coverd by S S B rules wil be sent on application.

The 5th code is our D C rules, uzed in adition to S S B rules, by those willing to pyoneer stil faster. The 6th code, a selection from U S Jeografic Board rules, and the 7th, the 10 joint rules of American and English filolojists, ar aded for reference and to sho by repetition in different codes how closely the best authorities ar in harmony.

To all governd by *reazon* rather than by vizual *prejudis* the objection to simpler speling that 'it looks queer' will be more than offset by the arguments, both skolarly and practical, in its favor; while those who shrink from uzing simpler forms thru fear of being regarded iliterate may find curaj thru knowing that the movement is supported by the most eminent filolojic authorities, and there wil be litl danjer that even the silliest of their correspondents wil bring the charj 'they don't kno how to spel', as result of their uzing simpler forms for such common and short words as **ar, giv, hav, shal, wer** and **wil.**

N E A 12 words

The National Education Association in 1898 adopted for use in all its official correspondence and printing the simplifyd spelings widely known as 'the 12 words', **catalog, decalog, demagog, pedagog, prolog, program, tho, altho, thoro, thorofare, thru, thruout.** In 1916 it adopted rule to simplify *ed* to **t** when so pronounst, in past tenses of verbs.

Simplifyd Speling Board 30 words

This list was chozen with special reference to correspondence, and includes the 5 typ-words, **catalog, program, tho, thoro, thru,** of the 12 words adopted, as noted abuv, by the National Education Association in 1898, for use in all its official publications and correspondence.

ad	**buro**	**fixt**	**reciet**	**(al)tho**
addrest	**catalog**	**giv**	**reciev(d)**	**thoro(ly, -fare,** etc.)
anser (d)	**det**	**hav**	**shal**	**thru(out)**
ar	**engin**	**insted**	**shipt**	**twelv**
askt	**enuf**	**liv(d)**	**tel**	**wil**
bil(d)	**fil(d)**	**program**	**telefone**	**yu**

S S B alfabetic rules

æ, œ, initial or medial. Spel **e**; e.g. **esthetic, medieval, fenix, maneuver, subpena**; but **alumnae, striae** etc.

æ, œ ar now uzualy writn **ae, oe.** Other cases of **ae, oe, medial,** as in **canoeist, Gaelic** etc. ar not affected

bt pronounst **t.** Drop *silent b;* e.g. **det, dettor, dout, indetted, redout**

Retain **b,** if pronounst, in subtil(e)

ch pronounst like **c** in **car.** Drop *silent h* except before *e, i, y* [or uze **k**]; e.g. **caracter, clorid(e), corus, cronic, eco, epoc, mekanic, monarc, skolar, skool, stomac**; but **architect, chemist, monarchy,** or **arkitect, monarky**

dubl consonant before *e final silent.* Drop last 2 letrs; e.g. **bagatel, bizar, cigaret, creton, crevas, gavot, gazet, giraf, gram, program, quadril, quartet, vaudevil**

dubl consonant final. Reduce dubl to singl, but in *-ll* only after a short vowel, and in *-ss* only in monosilabls; e.g. **ad, bil, bluf, buz, clas, dol, dul, eg, glas, les, los, mes, mis, pas, pres, shal, tel, wil,** but not *al* for **all,** *rol* for **roll,** *needles* for **needless,** etc.

Retain **gross, hiss, off, puss**

e final silent. In the following cases drop **e**:

a) After a consonant preceded by a short vowel strest; e.g. **bad** (bade), **giv, hav, liv, centiped** (when so pronounst)

b) In **ar**(*e*), **gon**(*e*), and in **wer**(*e*) when not pronounst to rime with 'there'

c) In the unstrest final short silabls **ide, ile, ine, ise, ite, ive,** pronounst as if speld **id, il, in, is, it, iv**; e.g. **activ bromid, comparativ, definit, determin, examin, favorit, hostil, infinit, iodin, nativ, opposit, positiv, practis, promis, textil**

This **id, il, in, is, it, iv** group shud be chanjed 1st, as the long spelings constantly mislead to vulgar mispronunciations like *posityv, infinyt, favoryt* etc.

The ordinary use of **e final** after a singl consonant is to indicate that the preceding vowel has a pronunciation different from t at which it wud normaly hav if the consonant in question wer final, as in **bar, bare; hat, hate; her, here; them, theme; sir, sire; bid, bide; con, cone; run, rune.** Hence the **e final** is retaind in such words as **arrive, care, fine, mile, polite, ride, rode,** and also in **bromide, iodine** etc., when pronounst with the **i** of **line, side**

d) After **lv** and **rv**; e.g. **involv, resolv, twelv, valv; carv, curv, deserv, serv**

e) After **v** or **z** when preceded by a digraf representing a long vowel or a difthong; e.g. **achiev, believ, freez, gauz, leav, sneez**

f) In **oe final** pronounst **o**; e.g. **fo, ho, ro, to, wo**

Retain **e** in inflections **-oed, -oes;** as **foes,** not *fos,* **hoed,** not *hod*

ea pronounst as in *head* or as in *heart.* Drop the silent letr; e.g. **bred, brekfast, hed, helth, hevy, insted, lether, plesure, welth, wether; hart, harty, harth** [except in case of derivativs where it wud clearly be betr that pronunciation be made to correspond to root word than that speling be made to correspond to present pronunciation; e.g. **clean, cleanliness**]

ed final pronounst **d.** When the chanje wil not sugjest a wrong pronunciation, drop *silent e,* reducing a preceding dubl to a singl consonant; e.g. **anserd, cald, carrid, delayd, employd, examind, fild, followd, marrid, pleasd, preferd, robd, signd, sneezd, struggld, traveld, worrid, wrongd**; but not *bribd* for **bribed,** *cand* for **caned**; *changd* for **changed,** *fild* for **filed,** *pricd* for **priced,** *usd* for **used,** etc.

The **e** is retaind only in cases where it has by convention a diacritic use, to indicate a preceding long vowel, or, in case of consonants, **c** sibilant or **g** pronounst **j**

ed final pronounst **t.** When the chanje wil not sugjest a wrong pronunciation, spel **t,** reducing a preceding dubl to a singl consonant, and chanjing **ced, sced,** final, to **st**; e.g. **askt, fixt, helpt, indorst, wisht; addrest, kist, past, shipt, stopt, stuft; advanst, announst, commenst, invoist, notist; acquiest, effervest**; but not *bakt* for **baked,** *deduct* or *dedust* for **deduced,** *fact* or *fast* for **faced,** *hopt* for **hoped,** etc. (See note to preceding rule)

gh pronounst **f.** Spel **f**; drop *silent letr* of preceding digraf; e.g. **cof, draft, enuf, laf, ruf, tuf**

gh pronounst like **g** in **gas.** Drop *silent h;* e.g. **agast, gastly, gerkin, gost, goul**

gm final. Drop *silent g;* e.g. **apothem, diafram, flem, paradim**

gue final after a consonant, a short vowel, or a digraf representing a long vowel or a difthong. Drop *silent ue;* e.g. **catalog, dialog, harang, leag, sinagog**; but not *rog* for **rogue,** *vag* for **vague,** etc. *Tongue* spel **tung**

ise final pronounst as if speld **ize.** Spel **ize**; e.g. **advertize, advize, apologize, enterprize, franchize, merchandize, rize, surprize, wize**

mb final after a short vowel. Drop *silent b;* e.g. **bom, crum, dum, lam, lim, thum**; but not *com* for **comb,** *tom* for **tomb,** etc.

ou before **l,** pronounst like **o** in **bold.** Drop *silent u,* except in **soul**; e.g. **bolder, mold, sholder**

ough final. Spel **o, u, ock** or **up,** when pronounst as if so speld; e.g. **altho, boro, donut, furlo, tho, thoro; thru; hock; hiccup.** Spel **plow**

our final, with **ou** pronounst as a short (obscure) vowel. Drop **u**; e.g. **color, favor, honor, labor**

ph pronounst **f.** Spel **f**; e.g. **alfabet, emfasis, fantom, fonograf, fotograf, sulfur, telefone, telegraf**

re final after any consonant except **c.** Spel **er**; e.g. **center, fiber, meter, theater**; but not *lucer* for **lucre,** *mediocer* for **mediocre,** etc.

rh initial. Drop *silent h;* e.g. **retoric, reumatism, rithm, rom** (rhomb), **rubarb**

sc initial pronounst as if speld **s.** Drop *silent c;* e.g. **senery, sented, septer, simitar, sissors**; but **scatter, sconce** etc.

u *silent* before a vowel medial. Drop **u**; e.g. **bild, condit, garantee, gard, ges, gide, gild**

y between consonants. Spel **i**; e.g. **analisis, fisic, gipsy, silvan, sithe, tipe**

[We uze **y** for sound in **by** and so retain **y** in **syth, typ** etc.]

S S B 18 rules

1 When *ed final* is pronounst **t,** write it simply **t,** where chanje wil not sugjest incorrect pronunciation, as **askt, fixt, wisht** etc.; reducing a preceding dubl consonant to a singl consonant, as **blest, kist, dipt, dropt, stept** etc.; and chanjing *-ced* to **-st,** as **advanst, pronounst, rejoist** etc.; but avoid misleading forms like *bakt* for **baked,** *deduct* or *dedust* for **deduced** etc.

2 Chanje *ph* to **f** when so sounded, as **alfabet, fonograf, fotograf, sulfur, telefone, telegraf** etc.

3 Drop *e final* after *-lv* and *-rv*, as **delv, shelv, carv, curv, deserv** etc.; also in the endings *-ide, -ile, -ine, -ise, -ite, -ive*, unstrest, pronounst **id, il, in, is, it, iv**, as **bromid, oxid, hostil, textil, anilin, determin, examin, practis, promis, definit, favorit, opposit, activ, nativ, positiv** etc.; and at end of **ar**(*e*), **hav**(*e*), **giv**(*e*), **forgiv**(*e*), **misgiv** *e*), **liv**(*e*); becauz its normal use after a singl consonant iis to sho that preceding vowel is long. Hence it is retaind in such words as **bare, brave, mile, fine, wize, polite, arrive**

4 When digraf *ea* is sounded as in *head* or *heart*, uze sounded letr and omit the other, as **helth, hevy, insted, tred, wether, plesant, hart, harth** etc.

5 Substitute **e** for digrafs and ligatures *ae, œ, oe, æ*, when *not final*, as **esthetic, medieval, fenix** etc.

6 When *ch* is pronounst like **c** in **car** drop *h*, except before *e, i* and *y*, as **caracter, clorid, corus, cronic, eco, epoc, arcangel, mecanic, monarc, scolar, scool, stomac** etc.; but **chemist, architect, monarchy** etc.

Rule 6 was later alterd to '**uze k or drop h**', so we prefer **k** in **skool, mekanic, arkitect** etc.; for the asender **k** looks more like *ch* than does *c* and it is the form sure to be uzed in the end

7 Drop *silent h* from *initial rh*, as **rapsody, reumatism, rubarb** etc.

8 Reduce *ll final*, after a short strest vowel, to **l**, as **bil, dol, dril, dwel, fil, ful, fulfil, shal, tel, wil, wilful** etc.

9 Reduce *dubl final* consonants *bb, dd, ff, gg, nn, rr, tt, zz*, to a singl consonant, as **eb, ad, od, cuf, eg, bun, bur, whir, net, buz** etc.

10 Drop *-me* from *mme final*, as **gram, program**

11 Drop *-te* from *ette final*, as **cigaret, coquet, etiquet, omelet, quartet**

12 Drop *silent ue final* after **g**, as **catalog, colleag, dialog, pedagog, sinagog** etc.; except when **g** is preceded by a singl long vowel, as in **rogue, vague, vogue** etc. *Tongue* spel **tung**, Milton's way

13 For *-ough* substitute **o, u, of, ock, out** or **up**, according to sound, as **tho, thru, cof, enuf, hock, drout, hiccup** etc. *Plough* spel **plow**

14 Drop *silent b final*, as **crum, lam, lim, num, thum** etc.; except where omission sugjests incorrect pronunciation, as in **tomb, comb** etc.

15 Drop *e* from *ey final* unstrest, pronounst like short **y** final, as **abby, barly, chimny, donky, gally, trolly, vally, whisky** etc.

16 Substitute **z** for *s* in *-ise final*, pronounst as if speld **ize**, as **advertize, civilize, criticize, merchandize, rize, wize** etc.

17 Chanje *re final* after any consonant except **c**, to **-er**, as **center, fiber, meter, theater** etc.; but **lucre, mediocre**, not *lucer, mediocer*

18 Drop *u* from *our final* in words of 2 or more silabls, as **ardor, color, favor, honor, labor** etc.

Aded rules uzed in Decimal Clasification

Supplementing S S B's short list of most needed chanjes we hav selected from its longer preliminary list and from the other best authorities a few more chanjes which we uze in order to familiarize readers with shortr forms sure to be uzed later.

Besides chanjes in S S B rules we uzualy:

Spel **cud, wud** and **shud** for these constantly occurring words

Uze silabic **l, m, n** and **r** without the unpronounst vowel; e.g. *single* is not *singlee* or *singul* but **singl**, just as **prism** and **enthusiasm** ar not *prisum* and *enthusiasum*. Also omit preceding *obscure* vowel before silabic **l, m, n, r.** These 4 consonants partake of the nature of a vowel and so form silabls; **little** was pronounst **litel**, then **litul**, then **litəl**, and now simply **litl.** Many words ar going thru this same shortning. We hav no letr for this lo unstrest vowel which most peopl ignore. The *Standard dictionary* says it is 'reduced to a slyt vocalic resonance'. As the present vowel is misleading and we hav no letr for this very obscure sound it is betr to omit it and thus shortn the word. Peopl ar les likely to mispronounce this short form than the uzual speling; e.g. *pedal, metal, gambol*, ar not pronounst as speld, but more and more exactly like *peddle, mettle, gamble*, which ar correctly speld **pedl, metl, gambl.** For indicating minute shades of pronunciation in a dictionary our short speling wud not be enuf but it is ampl for all ordinary use

Uze **u** for *o* or *ou* pronounst as in **us**; e.g. **obvius, famus, cuntry, cum, handsum**

Uze **j** for *dg, dge* or *g*, pronounst **j** e.g. **jujment, rij, jem** (except in propr nouns and adjectivs, and in old D C entries and for initial in Index)

Uze **y** with its very common sound in **by, my, reply** etc. for *eigh, igh, ei, ie, ui* and *uy*; e.g. for *height, might, pleistocene, replied, guide, buy*, we spel **hyt, myt, plystocene, replyd, gyd, by**

We often leav **i—e**, as in **bite, ride** etc. til later

Uze **k** for *ck* or *ch, medial or final*, if pronounst **k**; e.g. **bak, stok, skool, mekanic, epok, monark**

For the present we often leav **initial c**, as in **caracter**

Drop **w** from *ow final* pronounst **o**; e.g. **blo, flo, sho** etc., but retain in inflected forms, e.g. **blows, blown, blowing**

Drop any **silent** letr that is foneticly useless; e.g. drop **c** from **fascinate**

Drop 1 of **dubl letrs** that serv no use; e.g. **clas, curiculum, paralel,** but retain if short form wud mislead, as in **hiss, off**

Sumtimes we substitute **s** for *ce*, when it wil not sugjest wrong pronunciation, e. g. **offis, servis, prejudis,** but not *fens* for **fence**; also we sumtimes substitute **z** for *s* or *se*, as in **becauz, eazy, uzual,** but not in inflections, as in **rubs digs, egs** (**s** pronounst **z** is left in inflections becauz there ar so many, and chiefly becauz the *vocal organs force the* **z** *sound after voist consonants* **b, d, g, m, ng, v** as in **rubs, pads, digs, egs, hums, bangs, givs,** etc. *Trying* to pronounce *s* results in *rups, pats, diks, eks, humps, banks, gifs* etc.)

We leav many bad spelings where corrections as in similar words myt lead careless readers into mispronunciation; e.g. we omit **c**, a silly duplication of **k**, in **bak**, but leav it in **backer** becauz *baker* wud confuze with the bred man. With only 23 letrs for 40 sounds we must make *only more obvius* needed chanjes and leav many inconsistencies til we hav the needed new letrs or modifyd forms to represent the other 17

U S Jeografic Board rules

Most chanjes made harmonize with rules uniformly uzed by U S Jeografic Board (and strongly recommended for jeneral adoption) in offcialy fixing propr spelings of jeografic names. Sum of these rules applyd to other words ar:

Pronounce vowels as in Italian and other continental European languajes, consonants as in English

C always **soft** (sounded **s**). Always uze **k** for **hard c**; e.g. **Korea, Dakota**; never *Corea, Dacotah*

We leav **initial c**, at present, in **cat, corus, cronolojy** etc., also **final c** in **grafic** etc.

G is always **hard.** Uze **j**, never *dj*, for **soft g** (**j** sound)

Ch always as in **church**; never use for *k* sound, e.g. spel **arkitect, caracter, corus, skool**

We keep **chemic** temporarily; **kemic** cums later

Never uze *ph* for **f** sound

Always pronounce **h** when uzed; e.g. **humor,** not *yumor*

Never uze *y* for vowel **i** when it has its propr sound as in other languajes (as in **pin, pique**); e.g. **limf, linch, simbol,** not *lymph, lynch, symbol*

Ei, with both short vowels pronounst respectivly as in **met** and **pin,** sound like **ey** in **they** and **prey,** or **a** in **fate**

Omitting useless *gh* in **sleig*h*, wei*gh*, frei*gh*t** etc. leavs betr spelings

Filolojists 10 joint rules

These wer made by American and English filolojic associations, including nearly all eminent skolars in English, after several years study by committees of their leading members. British and Americans jointly recommended these 10 rules as in the interests of real skolarship as wel as common sense:

1 **e** Drop *silent e* when foneticly useless, writing **er** for *re*; as in **liv*e*** (verb), **singl*e*, eat*e*n, rain*e*d,** *theatre* (**theater**)

2 **ea** Drop *a* from *ea* having sound of **e** as in **met**; e.g. **fe*a*ther, le*a*ther**

3 **o** For *o* having sound of **u** in **but,** write **u** in *above* (**abuv**), *tongue* (**tung**) and the like

4 **ou** Drop *o* from *ou* having sound of **u** in **but,** in *trouble* (**trubl**), *rough* (**ruf**) and the like. For *our* unaccented, as in *honour*, write **or,** e.g. **honor**

5 **u, ue** Drop *silent u* after **g** before **a,** and in nativ English words, and drop *final ue;* **g*u*ard,** *guess* (**ges**), **catalog*ue*, leag*ue*** etc.

[Do not drop **ue** when pronounst, as in **argue, value,** nor when preceded by a singl long vowel, as in **rogue, vague**]

6 **Dubl consonants** may be simplifyd when foneticly useless; e.g. **bailif*f*** (but *not* **hal*l*** etc.), *battle* (**batl**), *written* (**writn**), **travel*l*er**

7 Chanje *d* and *ed final* to **t** when so pronounst, as in *looked* (**lookt**) etc. unless the **e** affects the preceding sound, as in **chafed** etc.

8 **gh, ph** Chanje *gh* and *ph* to **f** when so sounded; e.g. *enough* (**enuf**), *laughter* (**lafter**) etc.; *phonetic* (**fonetic**) etc.

9 **s** Chanje *s* to **z** when so sounded, specialy in distinctiv words and in *-ise;* e.g. **abuse** (noun), **abuze** (verb), *advertise* (**advertize**)

10 **t** Drop *t* in *tch*; e.g. **ca*t*ch, pi*t*ch** etc.

Comments

Rule 1 givs us **l, m, n** and **r** as silabls without the useless *e* which no authority pronounces as writn; e.g. **singl, eatn**

Rules 3 and 4 giv us **u** for *o* and *ou* pronounst like **u** in **us**; e.g. **cum, handsum, obvius, perilus**

Rules 3, 4, 9 and 10, while not in S S B short list, ar fully approved. It was merely choice of *which* chanjes to make 1st with those who havn't the curaj to make all at once. When all leading skolars of the English world, including editors of all great dictionaries, recommend shortr forms, why shud we continue to write the worse than useless letrs? Every child and forener who has lernd **rave, wave, dive, alive** etc. is sure to pronounce **hav*e*, giv*e*** and **liv*e*** (verb) wrong unless we omit the useless *e*.

Sugjestions

We shud be glad to hav any practical sugjestions, but to save time and gard agenst elaborate presentation of varius fine spun theories, we ad that we hav wacht for many years the results of elaborate and wonderfuly delicate experiments in our best sykolojic laboratories. We hav red carefuly all the 'arguments' that sum wil deduce for retaining certain useless letrs. But these refinements, while very interesting to the specialist, hav no practical bearing whatever on languaj as the greatest tool with which man works. Its function is to convey meaning clearly, as quikly and cheaply as posibl. Microscopic verbal milinery has no propr place in this vast enjin. When one tels us that he has proved that *o* is uzualy pronounst with a slyt vanish which cud be represented by *w* we admire his observant analisis, but when he wishes to argue that we shud therefore ad *w* to *go* we hav no time for his vagaries. To attach sum mark to sho every refinement which modern reserch cud establish wud result in sumthing quite too complex for daily use. Melville Bell's visibl speech was a marvelus invention but only an unbalanst mind wud advocate its use for infinit demands of daily life.

By evolution, not revolution, we shal stedily move toward the ideal, when the greatest languaj the world has yet seen wil hav 40 distinct syns for its 40 distinct sounds, and becauz of its manifold advantajes wil becum the common tung of the world, known in adition to his vernacular by every intelijent inhabitant.

LAKE PLACID CLUB N Y — MELVIL DEWEY

Dec. 10, 1926

INDEX TO INTRODUCTION AND SIMPLER SPELING

Superior figures indicate the part of paje in ninths; 1, 5 and 9 indicating top, middle and foot: 27^3 means ⅓ way between top and middle of p. 27

D C means *Decimal clasification*
C D " *Classification décimale*, the enlarjd French translation of D C
I I B " Institut International de Bibliographie
N E A " National Education Association
S S B " Simplifyd Speling Board (American)
S S S " Simplifyd Speling Socyety (English)

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1 Filosofy

2 Religion

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4 Filology

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6 Useful arts

7 Fine arts

8 Literature

9 History

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001 Knowledge and learning in general

010 Bibliografy

.1 Theory, utility, etc. .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies .7 Education, training, see also 020.7; .8 Polygrafy .9 History

011 General bibliografies Universal catalogs

011 is by **Authors.** If by **Subjects** they go in 016

Properly a catalog is of a special collection and so tells where the works may be found. A bibliografy disregards actual location and tells what there is, but its contents can seldom be found in any one library

012–016 include both bibliografies and catalogs. 017–019 is limited to catalogs of general collections

012 Of individuals

Alfabeted by subjects of bibliografies (bibliografees), not by compilers; e. g. Chaucer, Dante, Ruskin, etc.

A bibliografy of an individual may include either works about or by the individual, or both

Authors on whom special collections are being made (e. g. in 800) attract their bibliografies to same number, leaving only a reference here. Other individual bibliografies class here, unless clearly limited to some subject; e. g. artists or musicians, bibliografy of Wagner 016.782

013 Of special classes of authors

Subdivided like the general classification, as indicated below. Lists of writings of such classes, if limited to a special subject, class with that subject; e.g. list of historical works by Jesuits 016.9. But in exceptional cases the bibliografy of a special class of authors may be put with that class; e.g. bibliografy of women's writings 396.58, tho 013.396 would be the better number in a general library

.0206 Writings of members of A L A
.064 " " " " French academy
.282 " " Roman catholics
.378744 " " Harvard graduates

.9 Writings of foren residents in a special country

Often extended to one or more generations of descendants. This provides for bibliografies in which nationality, not subject, is the important idea

.91 Authors from special country

Divided like 930–999 by country of origin and farther subdivided with 0 like 930–999 by country of adoption; e.g. 013.91485 bibliografy of writings of Swedes outside Sweden, 013.91485044 writings of Swedes in France, 013.9148507 of Swedes in America. This groups under *mother* country; e.g. gathers together all lists of works by emigrant Swedes

.930–.999 Foren authors in special country

Usually preferable to .91. Divided like 930–999 by country of adoption and farther subdivided with 0 like 930–999 for country of origin; e.g. 013.944 foren authors in France; 013.973 foren authors in U S, 013.9730485 Swedish authors in U S; 013.9485073 American authors in Sweden. Ordinarily 013.94807 would be explicit enough; the longer number is not advised. This groups under *adopted* country; e.g. gathers under a given country all its foren authors

014 Of special forms: anonyms, pseudonyms, etc

.1 American .2 English .3 German, etc.

015 Of special countries

Books publisht in the country. Publishers lists, current publications. Subdivided by countries like 940–999; e. g. 015.42, Bibliografy of books publisht in England, as Lowndes or English catalog

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc. goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliografy, and goes usually in 015, tho the literary history of some special class is 013

016 Of special subjects

Subdivided like the main classification, from 000–999; e. g. 016.01 Bibliografy of bibliografies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

See also next note

Library and sale catalogs

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heding wherever it conflicts with another. 017–019 therefore includes only catalogs of general collections, limited to no one class or subject

Under 017-019, 4 means catalogs of books for sale, not publisht, by booksellers. For *publishers* catalogs see 015

017 Clast catalogs: systematic or logical

.1 Public .2 Private .3 Auction .4 Booksellers

Class here author and subject lists bound together, as they are much oftener used to see what has been written on some subject than whether a library has a certain book

For all forms of alfabetic subject catalogs, see 019. See 016 for Bibliografies

018 Author catalogs See 011 for Bibliografies

.1 Public .2 Private .3 Auction .4 Booksellers

A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronologic, and any other forms (except subject and dictionary) of catalogs of collections

019 Dictionary catalogs Alfabeticoclast, etc.

.1 Public .2 Private .3 Auction .4 Booksellers

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- 010 Bibliografy
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020.1 **Theory**

.14 Library terms, definitions, etc. Discussion. For dictionaries, glossaries, etc. see 020.3

.2 Compends .3 Dictionaries .4 Essays .5 Periodicals

020.6 Societies, associations, clubs, conferences
.61 Official institutions; government departments
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.62 Societies not under government control
.621 International associations
.622 National "
.623 State "
.624 Local clubs
.625 Associations of special groups
State librarians, or class in 027.506
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Library dep't of N E A or class with subject in 021.3
.626 Mutual benefit associations
Or class in 023.59, if preferd
.627 A L A publishing board
For library leags see 021.3
.63 Congresses, conferences, meetings, temporary organizations
.65 Commercial establishments Library Bureau
For commercial circulars see 020.85
.7 Education Training Library schools
.71 Instruction, schools
Standards, location, cost, etc
.711 Library schools
Use letter for each school, and if desired divide like 378 A–Z
.712 Summer schools
.713 Apprentis classes Training classes
.714 Correspondence schools
.715 Library institutes
Similar to teachers institutes; local meetings with a conductor, for discussion of practical problems
.716 Courses in colleges and universities
.717 Courses in normal and high schools
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.719 Private schools and instruction
.72 Research work
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.74 Museums, exhibits
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.77 Special pedagogic methods
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.79 Competitions, prizes, traveling scholarships
.8 Polygrafy
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See also 020.65 Commercial establishments
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.88 Curiosa, anecdotes, library humor, dummy book titles
.9 History of library economy
For history of libraries both public and private see 027
Lives of librarians are clast in 920.2. To keep them with the subject use 020.92, and for fotografs of librarians 020.921. Collected lives may be separated from individual by use of the Olin booknumbers (following Index)

021 Scope, usefulness and founding of libraries

Also scope and founding of combined libraries and museums. Support, development
.01 Arguments for libraries: purpose, benefits
Impressivness of libraries. Discussion of free public libraries is better clast here than in 027.4
.02 Arguments against libraries: evils of libraries
For paternalism in library see 021.201
.03 Progress and future of libraries
Reforms, improvements, projects, plans, profesies, library ideals
.04 Ideals for special communities
e.g. what a library can do for a manufacturing community
.1 Library as a storehouse
.16 Character of material appropriate to library
.2 Library as an educator; people's university
Material on private reading is better in 028 than in 021.2
While the work of a library is nearly all educational in a broad sense, the relations of the library to special classes of the community, outside of direct educational work thru schools and home education work, ar best clast with libraries for special classes in 027.6, or when a special subject predominates, in 026
.201 Paternalism in library
See also 024.58 Library censorship of news, 024.674 Restriction of immoral books, 025.217 Exclusion of immoral or il made books
.25 Library as a publisher
.26 " bookseller
.28 Work for special classes of users
Physicians, lawyers, clergymen, women, foreners, etc. See also 021.3
.3 Library in relation to schools and the young
This is mainly for relations of general public libraries to school work. Class a library ownd by and kept at the school in 027.8. School libraries, 371.622 is only to keep all school material together under 370. Class general work for children with children's libraries in 027.6
.31 Relations to teachers
.32 " pupils
Librarian's talks to pupils, either at schoolhouses or at library, on use of library
.33 Special libraries for schools
Specially selected from general library and lent to school either for class or general school use. Duplicates for schools
.34
.37 Work of individual libraries with schools
Alfabeted by library; e.g. accounts of work with schools by Hartford public library under Hartford, by Osterhout library at Wilkesbarre under Osterhout

021.4 **Home education**
This includes all servises or added fields of work undertaken by the library outside the use of books. For programs, reports, etc. of home education agencies, see 374.1-.9
.41 Study clubs Reading circles, etc.
.42 Conferences, conventions, institutes, etc.
.43 Lectures
For extension courses, see 021.44
.44 Extension courses Lecture study
.45 Entertainments: dramatic, musical, etc.
.46 Museums and temporary exhibits
.47 Science museums or collections
.48 Art galleries " "
.5 **Library as a recreation**
Serving refreshments; e. g. tea
.6 **Library extension and cooperation**
For work done by the state see 021.8
.61 Deliveries
See also 025.6 and 022.16
.62 Branches
See also 022.15
.63 Centralization Grouping of libraries
.64 Cooperation between libraries
Cooperation in any special department is clast with the department; e.g. interlibrary lending 025.6
.65 Traveling libraries
A collection (usually 25 to 100 volumes) either general or on one subject, lent to a community, library, study club or other organization. Book wagon
.66 House libraries
A small traveling library for use of a person or household. Originated at New York state library for isolated students
.67 Home libraries
Small libraries for children, each library kept at home of some child for use of a group, under supervision of a visitor. The libraries travel from group to group. Originated by Boston Children's aid society
.7 **Founding Developing and maintaining interest**
This is mainly for starting a library, interesting people and bringing them to the library. For most special methods of interesting those who ar alredy readers see 025.5 and 025.6
.71 Personal canvass, visits and correspondence
.72 Circulars
.73 Advertizing
In newspapers, posters, street cars, etc.
.74 Press Publicity
Discussion of use of newspaper colums (editorials, articles, letters, new book lists, etc.) to secure interest
.75 Schools and teachers
.76 Churches and ministers Pulpit
.77 Literary and other organizations and institutions
.78 Lectures Public meetings and addresses
.79 Library propaganda
Societies, local or general, for encouragement and stimulation

021.8 **Libraries and the state Library legislation**
.81 State supervision
.82 Library departments or commissions
Special work done by commissions is clast by its subject. Reports of commissions, if largely a summary of the *public* libraries of the state, go in 027.4 If important to keep all work of commissions together, class their reports here
.83 Government aid
.831 State grants of money
.832 Local subsidies
.84 Gifts of books
.841 Public documents, etc.
.842 Copyright books
.85 Exchanges
See 025.266 for systems of exchanges, management, routine in individual libraries. This number is for general exchanges by state or central authority
.851 Local
.852 Foren
Vattemare international exchanges, Smithsonian exchanges
.86 Privileges
.861 Remitted duties Free importation
.862 Free postage Franking privilege
.863 Lower rates or special facilities Cheap library post
.87
.88 State or local hindrances Politics
.89 Library legislation
General; laws for a special subject ar clast with the subject; e.g. law for a library commission 021.82; law against injuring library books 024.8
.891 National legislation
.892 State "
.893 Local legislation (county, city or village)
.894-.899 Legislation in special countries or places
Divided like 940-999
.9 **Support, raising funds, etc.**
For state aid separate from local help see 021.8
.91 Taxes Appropriations Subsidies
.92 Endowment
.93 Gifts of money or books
See also 021.84 Government gifts
.94 Bequests
.95 Subscriptions
.96 Lectures Fairs Entertainments, etc.
For raising money. For educational purposes see 021.43-.45
.97 Membership fees

022 Library bildings
See also 727.8 Architecture. For care of bilding see 025.9

.1 **Location, site, etc.**

.11 Location with reference to field of work
Accessibility to population servd, to other libraries, educational institu tions, etc.

.12 Site
With reference to space, air, light, soil, slope of ground, etc.

.13 Provision for growth New bildings

.14

.15 Branches

.16 Delivery stations

.17 Newsrooms, reading rooms, etc.

.2 **Material, protection**

.21 Material: wood, brick, stone, steel, glass, etc.
Relativ fitness for library bildings. See also 620.11 Strength of materials; 691 Bilding materials

.22

.23

.24 Fireproof construction

.25 Protection against fires
Location and relativ efficiency of apparatus: hose, extinguishers, chemic engins, standpipes, etc. For watchman see 025.9. See also 614.84 Fire protection

.26 Library fires, burning of libraries

.27 Insurance

.28

.29 Other dangers
Flood, earthquake, cyclone, war, etc.

.3 **Design Plans Construction**
Alfabet plans, elevations, exteriors, general descriptions, etc. by name of library. Use .31–.33 only for indexing

.31 By kind of library
Divided like 027. Group plans for public libraries, 022.314, in 3 subsections
022.3141 Libraries under 20,000, small; i.e. under this number list plans of such libraries, but shelv them in their alfabetic place under 022.3
.3142 Libraries from 20,000–100,000, medium
.3143 Libraries over 100,000, large

.32 By subject
Divided like 026; e.g. under 022.3234 list plans of law libraries so that they may be redily referd to in 022.3, or in journals or reports clast elsewhere

.33 By country
Divide like 930–999 and use like 022.31–.32 only for reference

.34 Design and decoration
Divided like 729 as follows:

.341 Elevation, style
Only for general discussion; class elevation of a special library under 022.3

.342 Plan
Number, distribution and dimensions of rooms; special forms, spiral, circular, etc. See note under 022.341

022.343 Artistic forms

.344 Painted decoration, etc.

.348 Staind glass

.349 Accessories and fixt furniture
Include paintings, statues, busts, etc. as decoration for bilding. Special library furniture, bookcases, loan desks, etc. ar 022.9

.35 Construction
Divided like 721. Class here only discussions limited to library bildings

.36

.37 Library rooms as part of other bilding

.38

.39 Remodeling old bilding
Either other bildings (churches, residences, etc.) for library purposes, or remodeling a library to meet modern conditions

.4 **Storage and shelving**
For furnishing of private libraries see 645.63

.41 Storage
Capacity per square meter of floor, or running meter of cases; allowance for growth

.42 Shelving round sides of room

.421 Wall cases

.422 Alcoves

.423 Galleries

.43 Stacks

.431 Stack rooms
Dimensions, maximum width with natural light only. Number of rooms, one or several. Number of floors

.432 Arrangement of cases
Parallel, radial; light; open access, supervision

.433 Movable cases

.434 Ailes
Position, width

.435 Flooring of stack rooms
Solid, glass, open grating

.438 **Maximum floor load**

.44 Cases, tiers

.441 Material: wood, metal, glass

.442 Dimensions of case and tier, hight, length
See also 022.452 Dimensions of shelf

.443 Plan of cases
Open or closed ends and backs; 1 or 2 ledges

.444 Fixt or movable shelvs

.445 Quarto and folio shelving

.45 Shelvs

.451 Material
Wood, metal, glass, stone, sheet iron, skeleton steel

.452 Dimensions: length, depth, thickness; standard shelf

.453 Surface finish or covering
Paint, varnish, cloth or lether covering

.454 Shelf supports: pins, brackets

022.46 Cases and shelvs for large books, lying flat
Dimensions, sliding or roller shelvs, etc.
.47 Closed cases Doors: glass, screen or wood
.48 Special cases
.481 Hanging presses
.482 New-book cases
.483
.484
.485 Cases for maps, engravings, etc.
.486 Cases for fotografs
.487 Cases for lantern slides
.5 Reading rooms
See also 022.63 Rooms for special material
.51 General reading room Central hall
.52 Small reading rooms Study rooms
Gallery study tables. For seminar and class rooms see 022.65
.53 Reference room
.54 Standard library
.56
.57 Women's room
.58 Children's room
.6 Administration and special rooms
.61 Rooms for trustees or outside organizations
.611 For trustees
.612 " committees, commission, school board
.613
.614 For local societies
.62 Administration rooms
Divided like 025
.63 Rooms for special material
Divided like 025.17; e.g. 022.6332 Newsrooms
.64 Special collections: patents, local history, etc.
.65 Instruction rooms, etc.
.651 Lecture room or hall, theater, concert
.653 Seminar room, class room
.655 Museum
.656 Art gallery
.657 Exhibition room
.658 Fotografic and dark room
.659 Piano and music room

022.66 Recreation rooms
.661 Conversation room
.662 Chess room
.663 Other games
.664 Billiards
.665 Bowling
.666 Gymnasium
.67
.68 Other rooms Lavatories, etc.
For helth, comfort or convenience
.681 Entrance halls and corridors
.682 Waiting room
.683 Telefone booth or room
.684 Lunch room
.685 Coat room
.686 Toilet room, lavatories, etc.
.687 Garage, bicycle room, etc.
.69 Residence quarters
.691 Librarian
.695 Janitor
.7 Lighting
.71 Natural lighting; windows
For architectural side see 022.358; for staind glass see 022.348
Position of windows; size and number; shape. Provision for opening; sliding, hinged or pivot sash, French casement
.72 Skylights
.73 Prisms
.74
.75 Artificial lights: materials
.751 Lamps, oil, etc.
.752 Gas
.753 Acetylene
.754 Electricity
.76 Fixtures
.762 Portable or semiportable lights
.763 Table lights
.764 Standards
.765 Bracket lamps
.766 Chandeliers
.77 Lighting of stacks by electricity
Fixt or movable lights
.8 Heating and ventilation
General hygiene of library. Divided like 697

022.9 Fixtures, furniture, fittings
.91 General furniture
.911 Chairs
.912 Tables
.913 Desks
.914 Revolving cases
.915 Bases
.916 Vertical files
See also 651.236 Offis equipment
.918 Counters
.92 Public conveniences
.921 Hatracks
.922 Umbrella stands
.923 Clocks
.924 Bulletin boards
.93 Furniture for exhibiting or using books, pictures, etc.
.931 Exhibition cases, fixt or movable
.932 Wing frames
.933 Easels
.934 Reference book holders
.935 Magazine and newspaper racks, files, etc.
.94 Appliances for getting or carrying books or messages
.941 Ladders, stepladders
.942 Book trucks
.943 Carrying trays
.944 Mechanical carriers
See also 621.867 Conveyers, Telferage
.945 Book lifts
.946 Pneumatic tubes
.947 Speaking tubes
.948 Interdepartment telefones
See also 621.3853 Intercommunicating telefones
.95 Elevators
For carrying persons, goods, etc. See also 621.877. **Class here only dis**cussion of them for library use. For book lifts see 022.945
.96 Floor coverings
For permanent flooring see 022.356
.961 Linoleum, corticine
.962 Matting
.963 Carpets
.964 Rugs
.965 Door mats: rubber, wire, etc.
.97
.98
.99 Desk fittings, etc.
Divided like 651.465

023 Government and servis Personnel

For government of special kinds of libraries see 026 and 027

.1 Constitution and bylaws for governing board
Charters. Local ordinances, etc.
.2 Appointment and tenure of offisers under governing board
State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executiv offiser
.3 Governing board
Trustees, committees, directors, regents, etc.
.31 Method of selection
Election, appointment, exofficio trustees, close corporation, i.e. selfperpetuating body
.32 Number
.33 Qualifications
.34 Women as trustees
.35 Powers and duties
.36 Financial administration
.37
.38 Time and place of meetings
.4 Executiv Consulting librarian Library expert
For appointment see 023.2. See also 023.5–.9, which apply to executiv as well as to staf
.43 Responsibilities and privileges
.5 Staf
Including all subordinate positions. For method of appointment see 023.2
.51 Qualifications
.52 Personality Character Moral and social equipment
.53 Mental equipment Natural ability
.531 General education
.532 Professional education Training
See also 020.7 Library schools
.535 Reading of librarians
.54 Physical equipment Helth Exercise
.55 Staf meetings Relations to hed
.56 Women as librarians
Including difference in salaries of men and women
.57 Worries and trials
.58 Longevity
.59 Library benefit associations
See also 020.626

023.6 Daily hours Holidays and vacations
.61 Daily hours
.611 Records Record clock
.612 Punctuality Tardiness
.62 Hours for meals Lunch room
See also 022.6 Special rooms
.63 Special work
.631 Evening
.632 Sunday
.633 Holiday
.64 Work by hour Overtime, extra hours
.641 Making up lost time
.642 Payment for overtime
.643 Effect of overstrain on employees
.644 " " on servis
.65 Holidays
.651 Weekly half holiday
.652 Legal holidays
.66 Vacations
.661 Time of year
.662 Length
.663 Continuous or in instalments
.664 Sabbatic year
.67 Absences for sickness or other causes
See also 023.641 Making up lost time
.68 Attendance at meetings
.681 International
.682 National
.683 State
.684 Local
.7 Titles and duties
.701 Specialization Monotony Change of work
.702 Understudies
.71 Executiv Director
Chief or principal librarian, keeper, etc.
.72 Department, division or section heds
Librarians, sublibrarians, chiefs, heds
.73 Reference staf or faculty
Librarians of special subjects
.74 Assistants Catalogers

023.75 Pupil assistants, apprentises, volunteers
Paid mainly by instruction
.76 Clerical servis
.761 Stenografers
.762 Typewriters
.763 Clerks
.77 Mechanic servis
.771 Binders
.772 Electricians
.773 Carpenters
.774 Other mechanics
.78 Pages, messengers, ushers, runners
.79 Janitor servis
.791 Janitor
.792 Watchman
.793 Elevatormen
.794 Attendants, in coat room, etc.
.795 Porters and packers
.796 Cleaners, etc.
.8 Remuneration: salaries, pensions
Divided like 023.7. See 023.56 for difference between salaries of men and women
.9 Rules for staf Codes
Made by trustees or librarian
For punctuality see 023.612. For absences or sick leave see 023.67
.91 Conversation
.92 Personal calls or work
.93 Soliciting money, subscriptions, contributions
.94 Respect and care for library property
.95 Uniforms
.96 Curtesy Indifference
See also 174 Business ethics; 177.1 Curtesy (social ethics)

024 Rules for readers
For reference and circulating departments
.1 Readers qualifications
.11 Age
.12 Residence
.13 Relations to community
Membership in society, club or institution; official position; profession, etc.
.14 Responsibility
Reference, guarantor, money deposit
.15 Registration
.16 " for limited period

024.2 Fees Assessments Free use

.21 Membership fees
Mercantil libraries, atheneums

.22 Book fees
Circulating library fees. For fines see 024.6

.23 Fees for readers card, etc.
For petty expenses to gard against wastefulness

.24

.25 Extra library fees; e. g. college library

.26 Public library fee
For subscription departments see 024.78

.27

.28 Free use

.3 Hours of opening

.31 Number of hours

.32 Time of day: morning, afternoon

.33 Evening opening

.34 All night "

.35 Intermission for meals
Closing library during lunch, dinner or supper hours

.36 Hours for reference and circulating departments

.37 Cooperation of local libraries
Agreement on hours so that some library shal always be open

.4 Days of opening or closing

.41 Sunday

.42 Special religious days

.43 Holidays

.44 Vacation, summer

.45 Inventory Examination
Closing for annual examination of library

.46 Special occasions
Closing for recataloging or rearrangement; public calamity, deths

.47 Closing for epidemics

.5 Reference use

.51 Reading room rules

.52 Decorum in library
Unwelcome visitors; library cranks

.53 Ladies in reading room
For women's separate reading room see 022.57

.54 Access to catalogs
For access to librarian see 023.43

.55 Open reference shelvs

.56 Open shelvs in general

.57 Restricted or selected access to shelvs
Restriction as to persons or subjects

.58 Library censorship of news
Obliteration or suppression, in reading room copies, of newspaper reports tending to lower morals; e.g. betting and racing news, reports of crime. criminal trials. See also 021.201 Paternalism

024.6 Home use Loans

.61 Number of books

.611 Two book system

.612 Summer vacation cards

.62 Time: 7-day books, new periodicals

.63 Delinquencies Fines
For injuries, etc. see 024.8

.64 Renewals
Extension of loans by library

.65 Relending
Lending by borrowers

.66 Reservations

.67 Restricted books

.671 Reference

.672 Rare or costly

.673 Medical

.674 Of immoral tendency Library inferno
See also 021.201 Paternalism

.68 Interlibrary loans

.681 International loans

.7 Special privileges

.71 Extra books Teachers cards

.72 Extra time

.73 Remission of fines Excuses

.74 Favord classes: trustees, faculty, staf

.77 Lending restricted books

.78 Subscription department
Novels and popular new books lent for fee. Extra copies for rent in public (tax supported) libraries

.8 Injuries Abuses

.81 Defacements
Marks; corrections, notes and comments

.82 Mutilation

.83 Removal of plates, maps, etc.

.84 Mutilating newspapers

.85 Losses by readers; payment

.86 Thefts

.87 Restitutions

.88

.89 Prevention of abuse
Methods of preventing injury and inducing better care of books For library leag see 027.6

.9 Other rules

025 Administration Departments

SUMMARY

Supervision	025.1	Executiv
Acquisition	.2	Accession
Utilization	.3	Catalog
	.4	Classification
	.5	Reference
	.6	Loan
Preservation	.7	Binding
	.8	Shelf
	.9	Care of bilding

025 is for the librarian's part. The trustees bild and furnish (022); make rules for government and servis (023), and regulations for readers (024); but the administration involvs questions of its own, which, however, ar closely allied to topics in 021–024 and elsewhere; e. g. the librarian must know his side of binding, and be able to giv proper directions and supervision, but need not know all the details of the binder's craft (686)

Administration includes .1 Supervision .2 Acquisition .3–.6 Utilization .7–.9 Preservation; i. e. the librarian's duty to books is to Get, Use, Keep

.1 Executiv General supervision

.11 Finances
See also 023.36 Financial administration of governing board

.111 Invested funds, endowments, gifts
See also 021.9 Support

.112 Appropriations: local or state
See also 021.8 Libraries and the state

.113 Other money receivd
Fees, assessments, fines, payments for special servises and investigations, etc.

.114 Accounts: receits and expenses, bookkeeping

.115 Salary payments Staf payrolls
See also 023.8 Salaries

.116 Expenses: fittings, supplies and incidentals
Class with a department supplies peculiar to it, their kind, quality, cost, etc.; e.g. catalog cards with 025.3. For bookbuying see 025.2

.117

.118 Cost of preparing books for shelvs

.12 Printing and publications
Both preparation of material and details of printing, including size, style, type, etc.

.121 Blanks and forms, stationery
If relating to a special department class with it; e.g. bookplates in 025.2

.122 Publications

.123 Reports and statistics
See also 027

.124 Catalogs
See also 017–019. For cataloging see 025.3

.125 Bulletins
Frequency, advertisements, etc. See also 017–019. For preparation of book lists see 025.3; for newspaper publication of new book lists, see 021.74

.126 Library magazine or paper

.127

.128

.129 Duplicating by neostyle, carbon, etc.
For machines and processes see 652. Class here discussion of fitness for library applications only

025.15 Correspondence

.151 Stationery
Material, weight, size and headings

.152 Stenografers, dictation machines

.153 Typewriters

.154 Copiers
Roller, press, carbons, portable. See also 025.129

.156 Letter files
See 651.5 for methods

.17 Treatment of special material
For general discussions of arrangement, care and use. Class special work under each department: e.g. cataloging of incunabula in 025.3

.171 Manuscripts, archives and rarities
Divided like 090

.172 Pamflets

.173 Serials, documents, etc.

1 **Periodicals, magazines, etc.**

2 **Newspapers**

3 **Annual reports**

4 **Documents; national, state and local**

.174 Broadsides

.175 Clippings

.176 Maps and charts

.177 Art material
Engravings, fotografs, drawings, lantern slides

.178 Music: scores, rolls, etc.

.179 Museum material

.18 Administration of individual libraries
Alfabet by name of library. For administration of special kinds of libraries see 026 and 027

025.2 Accession Acquisition

SUMMARY

025.21 The library and its selection
.22 Methods of acquisition
.23 Ordering and receiving
.24 Accessioning
.25 Marks of ownership
.26 Duplicate and exchange department
.29 Special material

.21 The library and its selection

.211 What? Proper proportion of subjects
Division of funds; endowments for special subjects; accession statistics

.212 **Specialization by libraries**
Division of subjects among local libraries. See also 021.64 Cooperation. For collections on special subjects, economics, science, etc. see 026

.213

.214 Who? Selectors of books
Trustees or trustee committee; librarian; staf committee, book board; advisory committee from outside; experts; central body (bibliografic bureau, state commission, etc.)

.215 How? Methods of selection
Recommendations by readers; personal examination; visits to book stores; books sent on approval: printed reviews; first selection for new library. Want lists, books under consideration
For lists of best books, A L A catalog, annual lists, etc. see 016
For principles of selection and choice of editions see 028.2
For selection for special classes see 027.6, 027.8, 028.5

.216 Buying fiction
Duplicating popular fiction; extra copies of best fiction

.217 Rejection, exclusion, censorship
Pernicious literature; badly made books; yellow journals. See also 021.201 Paternalism

.218 Weeding out, sifting
Separating books no longer of servis to library. For withdrawal book see 025.249

.22 Methods of acquisition

.221 Buying new books
Local bookstore; book center, general agent; publishers; subscription agent; bids on special lists; foren books thru home or American agent, thru foren agent. See also special material 025.29

.222 Prices Discounts
Net books. For free importation, see 021.861

.223 Buying old books
Secondhand catalogs; remainders, trade sales; dealers in old books, bookstalls; value of old books

.224 Auctions
For auction catalogs see 017–019

.225 Buying libraries in block

.226 Exchange

.227 Gifts
Request blanks and records; gift lists; acknowledgments; privately printed books; propagandist books
For government documents and copyright books see 021.84
See 025.268 for gifts from library to library

025.23 Ordering and receiving
For gifts, see 025.227; for exchanges, see 025.266

.231 Ordering
Order slips or lists; order books or sheets; copies of orders; order index; order numbers

.232 Examination for duplicates and verification
Misspeld names; changed titles; separates

.233 Reception and opening
Express, mail, etc; frequency of shipments; free delivery

.234 Checking bills
Prices and amounts

.235 Collation

.236 Receit index

.24 Accession book

.241 Importance of record
Accession book vs shelflist, etc.

.242 Printed headings Items Fulness of entries

.243 Accession number: volume, work or invoice

.244 Accession stamp

.249 Withdrawal book

.25 Ownership marks

.251 Private marks

.252 Stamping
Ink, embossing, or perforating stamp. Table and foot power

.253 Book plates Plating
See also 097

.254 Library name on outside of book
Gilding or impressing name of library on back or covers

.255 Card pockets

.26 Duplicate and exchange departments

.261 Duplicates
Definition, rules and decisions, marking, stamp, plate, etc.

.262 Duplicates of institution's own publications
Either of library or larger organization including it; e.g. duplicate Columbia publications in Columbia university library; stock on hand

.263 Cataloging

.264 Arrangement

.265 Sale for cash

.266 Exchange
General exchange of publications; exchange accounts

.267 Clearing house for duplicates
See also 021.852 Vattemare international exchanges, Smithsonian exchanges

.268 Gifts to other libraries

.269 Deposits
By large libraries in small or in hospitals, prisons, etc. also deposits in great collections by individuals or small libraries. See also 025.218

.29 Special material
Divided like 025.17

025.3 **Catalog**

For printed catalogs themselvs, see 017–019. This is for *cataloging*

Printed, manuscript, or card; Author, subject, title, clast; Dictionary or combined; Cooperativ rules; Size notation; Cooperativ cataloging; Duplicated titles, print or photografy; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels

.4 **Classification**

For philosofic classification of knowledge, see 112 Methodology. This is for practical classing of books, pamflets, and notes, rather than theoretic speculation

On shelvs; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close vs broad classing; Mnemonic features; Basis of division; Coordination of special subjects

.5 **Reference Reference books Aids to readers**

See 028 for general discussion of reading and aids. This is limited to library administration

.6 **Loan**

See 024 for rules for readers

Indicators; Charging systems, legers vs cards; Book cards, marks, pockets; Call slips, readers cards; Notises, reservs; Registers; Interlibrary loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 **Binding and repair**

See also 686 Bookbinding

Materials, durability, tight vs spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling

.8 **Shelf**

See also 022.9, Shelving

Arrangement; Shelf numbers; Shelf and book labels; Fixt and relativ locations; Sizes of shelvs; Arrangement and preservation of public documents, pamflets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Chaind books; Injuries, heat, gas, insects; Stock taking; Shelf lists

.9 **Bilding: care, cleaning, safety Janitor Police**

See 022 for bilding and fittings. This is janitor's department

026 Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in preceding sections. Subdivided by adding the class number of subject; e. g. a Medical library is 026.61; a Chess library, 026.7941; but the *catalog* of a chess library is 016.7941. Blanks, etc. from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026–7, thus making a complete set of its publications

027 General libraries

This includes both circulating and reference; i. e. all not limited to special subjects

Subdivided if wisht by countries, like 930–999; e. g. 027.744 College libraries in France. Or if wisht, group all by geografic location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044 Libraries of France; 027.07471 Libraries of N. Y. city

A private library is still clast 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change

.1 **Private and family**

.2 **Proprietary, society, club and Atheneum**

.2 is limited to libraries that are semiprivate, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantil library, even tho it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2

.3 **Subscription Circulating**

Mudie's, Booklovers, etc.

.4 **Free public Rate supported Endowd**

Public library commissions. See also 331.853; and 027, last note

.42 Special kinds of public libraries

General discussion of county or rural libraries, etc.

.5 **State and government**

.6 **For special classes**

Institution, prison, reformatory, asylum, blind, monastic, workmen's, factory, railroad, sailors, lighthouse. A workmen's library of books on engineering is 026.62, not here, as the subject is more useful than the class of readers

.7 **College, university**

For libraries of professional and technical schools see 026

.8 **School Sundayschool Parish**

See also 371.64 Libraries as school equipment; 021.3 Library in relation to schools and the young

.9 **Free newsrooms and reading rooms**

See also 331.853

028 Reading and aids

See 374.1–.2 Self education by private reading and reading circles

.1 Methods

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking

.2 Choice of editions

Annotations, indexes, paper, type

.3 Courses of reading

Both discussion and lists of books

For sets of books representing prescribed courses for general culture, e. g. *Harvard classics*, see 080

.4 Fiction Novel reading

Discussion. Short selected lists may be put here, tho all fiction lists are better together in 016.823 (in German libraries 016.833, French libraries 016.843, etc.)

.5 Reading of young Juvenils

Both discussion and lists of books

.6 Professorships of books and reading

Lectures. Stimulus and guidance in schools

.7 Use of reference books

.8 Aids to readers

Guidance, printed or personal. See also 028.6 and 025.5

.9 Character of reading in libraries

029 Literary methods and laborsavers

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best servd by referring to 025 and 028 insted of repeating the heds

.07 Study and teaching

.1 Methods

Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); cooperativ methods; records vs memory, etc. See 653 Abbreviations and shorthand; 154.1 Mnemonics; 025.4 Classification

.1 is for what one *learns* how to do by an improved *method*

.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature

.2 Appliances Laborsaving tools and devices

See also 651. Most literary laborsaving devices go also under 651, Offis equipment and methods; and are best kept together there; e. g. all offis and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc. cases, see 025.8; for binders, 025.7

.3 Clippings Scrapbooks or files

See also Files, 651.5

.4 Notebooks, notetaking, abstracting, etc.

.5 Indexing Index rerums Printed and patent indexes

For alfabeting and transliteration see 025.3

.6 Authorship Writing for press Copy and proof

See also 655.25 Proofreading; 655.52 Relations to publishers

.7

.8

.9

030 General cyclopedias

Subdivided by using for 3d figure: 1 American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Scandinavian; 9 Other; e.g. American cyclopedias, 031

040 General collected essays

Subdivided like 030

050 General periodicals Magazines

Subdivided like 030

060 General learned societies

Subdivided by using for 3d figure: 1 American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Other; e. g. Académie des sciences morales et politiques, 064

Academies of Paris, Berlin, Vienna, etc. Societies on a specific subject go with that subject; e. g. 550.6 Geologic societies. See also 360 Institutions and associations, for filanthropic, political, social and similar organizations

069 Museums Museum economy

The following classification is the work of a committee of the American Association of Museums, consisting of Laurence Vail Coleman, chairman, Edmund Otis Hovey, Henry W Kent and Harold L Madison. It has been developt primarily for museum use and many subjects ar included for which provision is made elsewhere in the main classification. For these it is recommended that in general the other number be used, e. g. for science museums 507. By those specializing on museum material an M, a dash, or some other arbitrary sign may, if wisht for brevity, be substituted for the basic number 069. Publisht tentativly in ed. 11, 1922, it has been thoroly revised

.01 Theory
Objectivs, ideals and scope of museums
More than 1 of following subheds may apply to a single article. In such a case the article should be clast under feature emfasized chiefly

.012 Museums from standpoint of support and control
.013 Public museums
2 National State
3 City Local
.014 Society Association
.015 College University
.016 Skool Children's
.017 Private

.018 Museums from standpoint of field coverd
Including discussion of possible range of museum subjects
Clas here theoretic discussions on general museums covering several subjects, e.g. science, art and history; also on museums devoted to a single subject, subdividing like main classification, e.g. 069.0185 Natural science museums, 069.0187 Art museums. Clas material on a specific museum in 069.09 divided by locality

.019 Museums from other standpoints
From standpoint of fisical caracter, etc.
2 Outdoor museums
3 Expositions

.02 Compends

.03 Dictionaries Glossaries Cyclopedias
For general works in dictionary form, relating to museums

.04 Collections of essays
Covering museums and museum economy in general. For essays, either single or collected, on special subjects see those subjects

.05 Periodicals
For periodicals devoted to museum economy. Not to be confused with periodicals devoted to science, art, history etc., which, even if publisht by a museum, ar clast with their subjects, Museum bulletins, tho periodicals, should be clast in 069.09, since they ar publisht primarily to giv information regarding the individual museum

.058 Annuals Directories

.06 Associations Congresses Conferences
Including reports, proceedings, transactions, constitutions, bylaws, lists of members, and other works *about* an association, whether publisht by it or not; also general discussions about associations

.07 Training for museum work

.08 Polygrafy
.081 Individual
.082 Collectiv
2 Extracts Maxims Anthologies
.088 Curiosa Anecdotes Museum humor

.09 History of museums and the museum movement
Clas here history of the general movement; also material relating to individual institutions, e. g. histories, reports, bulletins, announcements etc., i. e. whatever constitute history or history in the making
Divide geograficly like 940–999, and within groups alphabet by names of institutions
For special topics see those topics. For association publications and discussion of association functions see 069.06

069.1 Educational and recreational functions
Including museum functions in Americanization, conservation etc.

.107 Principles of museum education
2 **Work with children in general**
4 **Skool servis**
6 **Adult education**

.13 Lending of objects, collections, exhibits
For scope and caracter of lending collections see 069.56

.132 Lending to skools
Includes also giving to skools as a regular servis

.134 Lending to general public

.14 Lending of slides, films, projectors
Includes lending of written lectures to accompany slides. For scope of slide and film collections see 069.573–.574

.142 Lending to skools
.144 " " general public
.148 Sale and exchange of slides and films

.15 Museum instruction
.151 Information bureau
.152 Lectures Gallery talks Docent servis Story hours
Including lectures etc. delivered outside museum
1 **Lecturers Lecture bureaus**
.154 Museum games
.155 Classes Study clubs
Including examinations and credit sistems
.156 Field instruction
.157 Teacher training
Instruction of teachers in use of museum facilities

.16 Music in museums

.18 Publicity
.182 Pres publicity
.186 Campains

.2 Bildings
Here ar clast general works on museum bildings, and works including descriptions and pictures of a considerable number of bildings. Descriptions and pictures of an individual museum ar best clast with the history of that museum in 069.09

.21 Location, site etc.
.211 Location, environment
With reference to accessibility, fire risk, nuisances etc.
.212 Site
Fisical conditions, orientation: space, air, light, soil, slope of ground, etc.
.214 Improvement of grounds and courts

.22 Architectural design and decoration
Divisions 069.234–.239 may be used like 729.4–.9
.222 Plan Elevation
Including provision for growth, also allocation of museum functions
.225 Decoration
May be divided like 729 of main classification

069.23 Materials Construction
Including preservation and repair
.231 Foundations
.232 Walls Exterior
.233 Roofs Roofing
.234 Floors Flooring Floor coverings
.235 Ceilings Interior walls Wall coverings
.236 Windows Doors Gates
For windows ir relation to lighting see 069.292
.237 Stairs Fire escapes
.239 Other constructions
.24 Construction of special rooms
May be alphabeted by rooms. Includes museum rooms in skool bildings, libraries, etc.
.28 Reconstruction
.281 Remodeling
.282 Catastrofes Reconstruction
.29 Servis construction
Includes machinery, fixtures and fittings
.291 Plumbing
.292 Lighting
Clas here the whole question of museum lighting, whether natural or artificial
For fixtures particularly suitable for special rooms see 069.36
.293 Heating, ventilating and humidity regulation
May be subdivided like 697 of main classification
.294 Power construction
6 **Vacuum and comprest air apparatus**
.295 Elevators Dumb waiters
.296 Means of communication
Telefones, speaking tubes, bels, buzzers, alarms, pneumatic tubes
.297 Fire-fighting construction
Including hose, sprinklers, extinguishers etc.
.298 Incinerators
.299 Other servis construction
Including 1st aid cabinets, etc.
.3 Equipment Furnishings Supplys
For servis equipment see 069.29
.31 Exhibit cases Screens Pedestals
For other cases see purpose for which used
.311 Generalities
1 **Size Shape Dimensions**
2 **Material Finish Construction Knock-down construction**
3 **Covering and color for bakground and floor**
4 **Doors Loks Devices for opening and closing**
5 **Shelvs Diaframs Steps Interior equipment**
6 **Lighting**
7 **Devices for moving**
8 **Ventilation Dust and pest proofing Humidity regulation**
9 **Other**
.312 Horizontal cases

069.313 Vertical cases
.314 Combination cases
.315 Screens: floor wall, swinging
.316 Pedestals
.317 Special cases Carrying cases
Clas here all carrying cases for skool collections, etc.
.32 Exhibit apparatus
.321 Projection apparatus
Lanterns, motion picture projectors, screens etc.
.325 Sound apparatus Sound-producing devices
Fonografs etc.
.33 Furnishings Fittings
Thos for general use; if for a special purpose they ar clast with the purpose with special room in 069.36
.331 Furniture
1 **Chairs Seats Invalid chairs**
Includes upholstery
2 **Tables Desks Counters**
3 **Cabinets Shelvs Raks Drawers Trays**
4 **Bulletin boards Sign standards Wall pockets**
5 **Shades Curtains Draperies**
6 **Lamps Lighting accessories**
For illumination see 069.292
7 **Ladders Hoists Cranes**
8 **Truks Conveyances**
9 **Other**
Cloks, water coolers, etc.
.332 Desk fittings
.333 Tools Implements
Clas here only tools and implements not provided for under their use, as tools for taxidermy under 069.45966
1 **Cleaning and janitor's implements**
.334 Storage containers Museum glasware
.34 Supplys General materials
.341 Cleaning supplys
Includes their use
.342 General plant supplys
1 **Dry goods Uniforms**
2 **Toilet supplys Towel servis**
.343 Fuel
.344 Stationery
For special blank forms etc. see their use

069.348 Materials
For materials of general usefulness only. Clas bilding materials under 069.22 and preparation materials under the appropriate division of 069.4
1 **Wood Wood substitutes**
2 **Stone**
3 **Metal Hardware**
4 **Paper Fabric Fiber**
5 **Glas**
6 **Chemicals Fluids**
8 **Glues Cements Lutings**
Includes formulas for preparing glues etc.
9 **Other**
.36 Equipment of special rooms
Alfabeted by rooms like 069.24
.4 **Collecting Preparing Repairing Restoring**
Clas here methods, equipment and special materials. This section is for all methods involvd in preparing objects and specimens for exhibit, or for incorporation into a study collection. Since the preparation of certain kinds of material is begun in the field, it is impossible to divorce the collecting from the preparation of these. On the other hand, much material, specially in art, is collecte by methods treated under 069.51 Acquisition, so that only its 'getting redy' (restoration and repair) is included here. The teknic of excavating, however, applys in part to works of art
.41 Modeling Molding Casting Coloring
.411 Modeling Pattern making
1 **In clay, plastilin etc.**
2 **In wax, paraffin etc.**
3 **In plaster**
4 **In gelatin, glue etc.**
5 **In celluloid**
6 **In glas**
7 **In wood**
8 **In papier-mâché, paper etc.**
9 **Other**
Including stone (sculpture)
.412 Molding
1 **In clay, sand etc.**
2 **In wax, paraffin etc.**
3 **In plaster**
4 **In gelatin, glue etc.**
5 **In celluloid**
8 **In papier-mâché, paper etc.**
9 **Other**
Including sulfur and metal
.413 Casting
2 **In wax, paraffin etc.**
3 **In plaster**
4 **In gelatin, glue etc.**
5 **In celluloid**
8 **In papier-mâché, paper etc.**
9 **Other**
Including sulfur and metal

069.414 Electroplate reproduction
.415 Coloring
1 **On fabric**
2 **On wax, paraffin etc.**
3 **On plaster**
4 **On gelatin, glue etc.**
5 **On celluloid**
6 **On glas**
7 **On wood**
8 **On papier-mâché, paper etc.**
9 **Other**
.419 Excavating
General methods
.42 Models construction
.422 Relief maps Panoramic models
.423 Ethnologic models
.424 Architectural models
Including exteriors and interiors
.425 Caves etc.
.426 Mekanical models
Including astronomic, fisical and chemic models
.427 Animals: entire or dissected
1 **Isolated organs or tissues**
2 **Invertebrates**
6 **Vertebrates**
7 Fishes
76 Batrachia
8 Reptils
9 Man
.428 Plants
2 **Plant accessories for groups etc.**
3 **Fruits, vegetables etc.**
.429 Miscellaneous
1 **Prepared foods**
.43 Groups construction
.432 Artistic composition Layout
.433 Field work
.434 Bakground
1 **Transparent fotografic**
3 **Opaque fotografic**
5 **Painted**
.435 Foreground
See also 069.45966 Taxidermy, 069.41 Modeling, etc.
.436 Case and lighting
See also 069.3316 Lamps, Lighting accessories
.437 Small-scale groups
.438 Enlarged-scale "

069.44 Expeditions
.442 Equipment Supplys
Including transportation of same
.443 Personnel
.444 Relations with nativs, guides, information about regions, etc.
Divide geograficly like 940–999: 4 Europe, 5 Asia, 6 Africa, 7 North America, 8 South America, 9 Oceania, Polar regions
.447 Protection of museum materials
3 **Museum pests**
Poisoning, insecticides, pestifuges, fumigation
4 **Prevention of decay by chemic action, rust, bronz diseases, etc.**
.448 Packing Transportation
General methods. For methods of packing special materials see preparation of those materials
.45 Science objects
.455 Roks Minerals
2 **Field notes**
4 " **work**
6 **Laboratory work Mounting**
.456 Fossils
3 **Field notes Sketches Fotografic studies**
4 " **work**
6 **Laboratory work Mounting**
.458 Plants
For histologic methods see 581.8
2 **Field notes Sketches Fotografic studies**
4 **Collecting Pressing Preserving**
6 **Mounting**
For reproduction in wax etc. see 069.428
.459 Animals and animal tissues
For histologic methods see 591.8
2 Invertebrates
22 **Field notes Sketches Fotografic studies**
For sistems of filing these see 069.5711
24 **Capturing Killing Preserving**
25 **Transporting Storing**
Includes preserving fluids, etc.
26 **Mounting: dry or in fluids**
Includes both whole-mounts and dissections. For reproductions in wax etc. see 069.4272
27 **Nests, workings etc.**
6 Vertebrates
62 **Field notes Sketches Fotografic studies**
For methods of filing these see 069.5711
64 **Capturing Killing Preserving**
65 **Transporting Storing**
66 **Skinning Tanning Taxidermy**
For reproductions in wax etc. see 069.4276.
67 **Nests, workings etc.**

069.459
68 **Anatomic material**
682 **Field notes, etc.**
Including data of fisical anthropology
683 **Fluid and jelly methods for soft tissues and embryos**
Includes fixation and color restoration
684 **Dry methods for soft tissues**
685 **Bone Skeletons Cartilage**
686 **Gross clearing**
687 **Gross staining and sectioning**
688 **Injection**
689 **Other methods**
.46 Industrial material Commercial material
.47 Art objects
For general methods of excavating see 069.419
.472 Architecture
.473 Sculpture
2 **Restoration**
4 **Cleaning**
Includes cleaning of casts
8 Keramics Glas
.474 Drawings
.475 Paintings
2 **Restoration**
3 **Repainting**
4 **Relining**
5 **Rebacking**
6 **Cradling**
7 **Varnishing**
8 **Gilding**
.476 Engravings
2 **Cleaning Washing**
3 **Mounting**
4 **Matting**
.477 Textils Weaving
2 **Repairing**
3 **Cleaning**
4 **Mounting**
.478 Wood work
5 Metal work
.479 Other
.49 History material
.5 Collections Exhibits
.51 Acquisition Disposal
.511 Policy
Scope, specialization, adaptation to special needs, responsibility of certain museums for certain materials, etc.
.512 Manner of selection and disposal
Including also methods of choosing objects for temporary exhibits
.514 Terms of gift and bequest

069.515 Purchases Sales
Dealers, sales, prices etc. May be divided by subject like main classification. Includes discussion of selling from loan exhibits. For sale of lantern slides see 069.141; for clerical work involvd in buying and selling see 069.647, for income derived see 069.6422

.516 Terms of loan
Includes loans both to and from museums. For circulating exhibits see 069.13

.518 Exchanges
Including lists of material desired or offerd, policy with reference to duplicates For exchange of lantern slides see 069.141

.52 Registration sistem
Accession record, catalog, index, donor list, and other records of gifts, purchases, loans, exchanges and discards of museum material; also registry of outside objects

.53 Exhibition
Clas here discussion only. Principles of visual presentation: arrangement of exhibits, museum fatigue. For description of specific exhibits or outline for exhibits see 069.54

.531 Originals vs reproductions

.532 Scope, classification and sequence of exhibits
Including correlation of subjects

.533 Temporary exhibits
For discussion only, including discussions of traveling exhibits

.535 Installation methods and devices

1 **Bases Pedestals**
For use inside cases. For floor pedestals see 069.316

2 **Installation on shelvs and steps**

3 **Installation without shelvs**
Including picture framing and hanging

4 **Devices for viewing**

5 **Means to prevent fading**

7 **Lay figures Mannikins**

9 **Other**

.536 Installation for special classes of materials

.537 Labels Labeling

1 **Format**
Size, material, color, type, ink etc.

2 **Data Literary style**

3 **Maps Charts Diagrams Pictures Transparencies**
Use of these as labels

4 **Tags Numbers**

5 **Gumd letters**

7 **Interrelation and rank of labels General labels**

8 **Location and attachment of labels**
Including frames, bindings etc.; label pins and holders, etc.

.538 Public catalogs, guides, gallery leaflets
Including plans, outlines or descriptions of exhibits, existing or projected, unless emfasis is on the individual objects, in which case clas in 069.54. May be divided by subject like main classification

.54 Specific museum material
For data concerning museum objects themselvs, whether exhibited or in reserv, including thefts, forgeries etc. Divide by subject like main classification. Clas plans, outlines or descriptions of ideal or projected study collections in 069.55, ideal or projected exhibits in 069.538, ideal or projected lending collections in 069.56

.55 Study collections: scope, arrangement, housing
Classification, tagging, shelving etc. including sistem of storage

069.56 Lending collections: scope, arrangement, housing

.57 Filed collections and materials
Including all information concerning material and accessories which ordinarily ar filed for preservation, and also data on mounts, labeling, cabinets, sistem, records, and blank forms used in connection with this material

.571 Fotografs Prints

1 **Fotografs, sketches etc. as field notes**

.572 Fotografic negativs

.573 Lantern slides

.574 Motion picture films

.575 Printing bloks

.576 Maps Charts Broadsides

.577 Molds Casts
Molds and casts used in modeling, taxidermy etc. not the collections of plasters which form part of an art collection, for which see 069.47

.58 Library
Clas material on construction of library room under 069.24, on equipment under 069.36

.581 Scope

.584 Rules

.585 Methods

2 **Acquisition of books**

3 **Cataloging**

4 **Classification**

5 **Reference use**

6 **Loan sistem**

7 **Binding and repair**

8 **Shelf work**

.6 Administration

.61 Organization
Including discussions of questions involvd in founding and in relationship to federal, state or local government, in so far as control is concernd, various forms of organization, etc. For financial and other contract relations with government see 069.643 and 069.645

.611 Obtaining of charters Constitutions Bylaws
Including matters defined by charter, constitution or bylaws, and not elsewhere provided for; e.g. name

.614 Membership

.62 Principles Regulations Ethics
Clas here publisht codes of rules, even tho covering different ground from that indicated below

.621 Principles of administration
Including specific matters of administrativ relationship

.622 Ethics
Administrators, employees, members, visitors etc.

.623 Regulations for staf

.624 Regulations for members Privileges

.625 General regulations for visitors
Including hours af opening and admission fees. Also clas here anything relating to museum attendance

.626 Regulations for copyists, fotografers, students etc.

069.63 Personnel
.631 General considerations
1 **Professional requirements**
Qualifications, duties. For training of staf see 069.07. For qualifications and duties of special position see 069.633
3 **Appointment Tenure**
4 **Hours Vacations**
May be subdivided like 023.6
Women as museum employees
.632 Governing board Trustees
1 **President**
4 **Other offisers**
5 **Electiv members**
6 **Ex-officio "**
.633 Staf
1 **Director Curator in charge**
2 **Other administrativ offisers**
3 **Curators**
4 **Instructors Docents**
5 **Librarian**
6 **Preparators Artisans**
7 **Attendants etc.**
9 **Other**
Include here material relating to use of watch dogs
.634 Woman's auxiliary
.64 Finance
See also 069.515 Purchase and sale of specimens, etc.
.642 Value of collections and other property
Divide by subject like main classification (using 1 for bildings and equipment), subdividing as minutely as desired for data regarding value of specimens
.643 Income
2 **Public support for operations**
Tax appropriations, rates, etc.
3 **Gifts**
Including bequests, contributions, dues
9 **Other sources**
For income on endowment see 069.646. For discussion of selling from loan exhibits see 069.515
.644 Expenses
2 **For operations**
22 Salaries
5 **Capital outlay**
.645 Plant
Including agreements with government for use of public land and bildings. Bond issues
.646 Endowment
.647 Accounting
Includes bookkeeping, budgeting and time accounting
.648 Employees welfare
Includes employees clubs, etc., pensions
.65 Offis methods
.651 Files Filing
.652 Correspondence
.655 Statistics Grafic methods
.66 Care of bildings and grounds
Upkeep, protection

069.67 Branch museums Outdoor exhibits
See also 069.52 for registry of outside objects
.68 Cooperativ relations
.682 Intermuseum relations
For joint membership privileges see 069.623
2 **Joint stafing Staf exchanges**
3 **Cooperativ exhibits**
For discussion of exhibits prepared for use of several museums in turn or held under joint auspices of several museums in same locality. For lending exhibits see 069.13
5 **Cooperation in reserch and expeditions**
9 **Other cooperativ relations**
Buying, production
.683 Relations with zoos, aquariums, botanic gardens, etc.
.685 " " other educational institutions
Clas here discussion of educational councils
2 **Relations with skools**
21 Elementary and secondary skools
For general works on relations of museums with elementary and secondary skools and for administrativ side of those relations; but since much of the work of museums with skools wil be clast in 069.132 Lending of objects, collections and exhibits to skools, 069.142 Lending of slides, films and projectors to skools, 069.152 Lectures, story hours, and 069.157 Teacher training, general works also and those dealing with administrativ relations may if preferd be clast by 'attraction' in 069.1
22 Colleges and universities
For museums supported or controld by colleges or universities see 069.015
24 Industrial skools
25 Medical skools
27 Art skools
3 **Relations with reserch institutions**
5 **" " libraries**
.686 Relations with Scouts and other children's organizations
Development of summer camp museums, etc.
.688 Relations with business world
2 **Relations in field of industrial art**
.689 Relations with other bodies
Religious organizations, societies, clubs, etc.
1 **Institutions for defectivs Hospitals**
Clas here relations with the blind, whether personal or thru institution
.7 Publications Publishing
For discussion concerning publication and for complete file of the institution's own publications, *also for other museum publications when clast as such*, for use as format sample publications, etc. When dealing with a special subject they ar preferably clast under subject; e. g. museum reports in 069.09; monograf on a scientific subject, with that division of science, etc.
.71 Authorship Editorial work
See also 029.6 and 655.52
.72 Publishing arrangements
Publishing by institution or by outside agency
.73 Printing Manifolding
.74 Binding
.75 Distribution Mailing lists
.76 Storage
.77 Reprinting
.8 Reserch

070 Journalism General newspapers

See also 029.3 Clippings Clipping bureaus
179.1 Morals of the press
323.445 Liberty of the press (political science)
351.751 Regulation of the press (government administration)
396.507 Women in journalism
655 Printing Publishing Copyright
741 Cartoons Caricatures

.1 Utility Theories Relations to other professions
For government relations see 070.15

.11 Standards Ethics Influence Responsibility
General and higher view, educativ influence; for degradation of the press see 070.16

.12 Endowd newspapers
Independence of popularity

.13 Liberty of the press Censorship
Individual privacy; diplomatic secrets; seditious or anarchic influence
See also political science, 323.445 Freedom of the press

.14 War censorship

.15 Subservience to special interests
Use by sectarian, partizan or private interests. Government relations and influence: subsidies, 'reptil fund'

.16 Sensational or ' yellow ' journalism
Fictitious news; scandals, murder and divorce trials; blackmail, bribes

.17

.18 Anonymous journals
Those with editors or place of publication unknown

.19 Other general questions
Comparison of field, importance and influence of newspaper, periodical and book

.2 Ownership and control

.22 Newspaper names

.23 Location

.232 Metropolitan Large city

.234 Provincial Small city

.236 Rural or village

.26 Syndicates Patent insides

.3 Business management

.31 Staf and workmen

.311 Offis staf
Manager, stenografers, bookkeepers, clerks, messengers

.312 Workmen
Compositors, foundrymen, pressmen, mechanics, laborers

.315 Hours, shifts

.318 Newspaper strikes

070.32 Newspaper printing
Clas here discussion of economy and other advantages of special methods and appliances
For mechanism and operation of newspaper presses see 655.31 Printing presses

.321 Size of page

.322 Methods and appliances

.2 Composition: linotype, monotype, etc.

.3 Stereotyping

.4 Presses

.324 Newspaper cuts: wood, zinc line, halftone

.325 Frequency of issue
Daily, semiweekly, weekly, etc.

.327 Time of issue
Morning, evening, successiv editions, extras

.328 Size of editions, number printed

.33 Distribution Circulation Sale

.331 Direct: subscription Mailing

.332 House delivery

.334 Indirect: newsboys, news agencies, etc.
Crying and peddling in streets; news stands

.336 Advertizing methods
Subdivided like 659.1 Advertizing

.337 Specialties
As means of increasing circulation. For special departments see 070.43
Regular: foren or marine news, stocks, sporting, etc
Occasional: adoption of popular causes, exposure of abuses, etc.

.338 Other means of increasing circulation
Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.

.34 Cost of production Expenses

.341 Plant: bilding and equipment, offises
Duplicate plant. Depreciation of machinery

.343 Supplies: paper, stationery, etc.

.344 Salaries and wages
Space rates. Pay of journalists, pecuniary inducements of vocation Traveling expenses

.345 Postage: pound rates, free carriage

.348 Advertizing
Necessity and cost of advertizing itself to gain circulation and secure advertizements. For methods see 070.336

.349

.35 Sources of income Receits
Sales, subscriptions, subsidies. For bribes see 070.16

.36 Advertizing department
Including all business pertaining to a journal's advertizing colums. For advertizing agencies see 659.1

.39 Foren offises
Subdivided like 940–999; e.g. *N Y herald* office in Paris 070.3944

070.4 **Editorial management**
.41 General
Editing rules: order of departments and articles; style; newspaper diction
.42 Staf: reporters, correspondents
Organization: hours, duties. For pay see 070.344
.43 Editorial departments
.431 News
1 **Sources and channels of news**
Telegraf, telefone, wireless, mail, reporters, carrier pigeons, other
Utilization and precautions; conflicting news
2 Press bureaus: associated press
Laffan and other news bureaus. For clippings see 029.3 under Literary methods and labor savers
5 **Foren**
6 **Home**
7 **Local**
.432 Leaders, editorials
.433 Local interests
Discussion of local affairs, questions affecting schools, library, public works, etc. For local *news* department see 070.4317
.44 Special subjects: departments and editors
.443 Financial: stocks, business, shipping, etc.
.445 Household Home Women Children
2 **Cookery**
4 **Clothing Fashions**
6 **Hygiene Care of children**
7 **Women's clubs**
8 **Children's department: games, puzzles, etc.**
.446 Recreation Sporting
.447 Art, musical and dramatic
7 **Art**
8 **Musical**
9 **Dramatic**
.448 Literary
1 **Poetry**
3 **Fiction**
.449 Other departments
2 Religion; 3 Education; 5 Science; 8 Humor
.45 Voluntary correspondents Contributors
.47 Special editions
Sunday newspaper. Supplements. For extras see 070.327
.48 Special kinds of journals
.481 Official journals
.482 Religious
.484 For foren population
In language foren to country in which publisht
.485 Propagandist
.486 Professional and technical
.487 Humorous
.488 Literary

070.489 Other: amateur, etc.

070.5-.9 **Form divisions**

.5 **Periodicals on journalism**
.6 **Press clubs Conventions Expositions**
.7 **Study and teaching of journalism College courses**
Schools Personal qualifications for journalism
.9 **History of newspapers and journalism**
General History of American newspapers 071, of German journalism 073, etc. Clas history of a particular journal with that journal

071-079 Newspapers of various countries

The 3d figures 1–9 are used as follows:

1 American	4 French	7 Slavic
2 English	5 Italian	8 Scandinavian
3 German	6 Spanish	9 Other

In large collections use geografic divisions under 1, American; 2, English, etc. as in 970 and 940–999. Because of large size and very general character, it is better to keep newspapers together here than to clas with local history of the place where publisht. They could not go on shelvs with ordinary books, and a reference is made as easily to them under 070 as anywhere.

080 Polygrafy Special libraries

For sets or 'libraries' so constituted as not to be redily scatterd by subjects, and miscellaneous information; but clas in 803 literary questions and ansers, even tho not alfabetic. 080 includes works composed of several distinct writings, united in a single collection or series and other than periodicals, newspapers and collections of lerned societies. Collections conditiond by terms of gift on being kept together may be put here, but for preferable treatment of sets, see in Introduction, Assyning clas numbers, section 11, and Reference library. If limited to a special subject, treat like Phoenix library, but shelv the collection in a block before or after the regular books on the same subject; e.g. the Doe collection on Spanish painting, D759.6, would stand together, yet would be where it belongd with the rest of the books on that subject.

081 Individual polygrafy

Complete or partial collections of an author's works, treating of various subjects. If they treat exclusivly or mainly of one subject they ar clast with that subject

082 Collectiv polygrafy

Distinct works of several authors, treating of different subjects and publisht in a collection

.1 **Libraries or series**

Clas here only such as include several branches of knowledge

.2 **Miscellanies, extracts etc.**

Clas here only such as include several branches of knowledge

083 Official publications

Official publications of countries, states, provinces, cities and other public bodies and powers may be clast together here but ar much better clast with subject treated or, if too general for that, with the body by which they ar issued

087 Publications for various classes of readers

.1 **Children's literature**

Children's collections may be clast here but ar much better kept as a separate collection markt J, the separate books being given their regular subject numbers (see section relating to Juvenils, in Introduction)

090 Book rarities

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 094. 090 is mostly used for grouping references to books located elsewhere.
See also 010 for bibliografy and bibliofily; 655 for printing and publishing.

091 Manuscripts

Clas in 096 mss important chiefly for illumination. Photografs of mss, when more valuable for subject matter, go with subject rather than here
For Diplomatics and Paleografy, see 417, and under the special language, 421.7, 431.7, etc.

.5 **Autografs**

.6 **Printed works with notes in hand of celebrated writers**

When notes ar by author of work, clas in 091.5

092 Block books

093 Books printed before 1500 Incunabula

Colophons

094 Rare printing

.1 **Books of great rarity but later than incunabula**

Typografic masterpieces (Aldines, Elzevirs, Caxtons, etc.); small editions; privately printed books; books interesting from choice of type, accuracy etc.

.2 **Unique copies**

.3 **Editions de luxe**

On colord or large paper or printed in colors

.4 **First editions**

095 Rare binding

Noted binders, costly ornaments, curious bindings, bindings bearing coats of arms

096 Rare illustrations or materials

.1 **Rare illustrations**

Illuminated. Illustrated by inserted plates

.2 **Rare materials**

Printed on vellum, silk, bark etc. in gold or silver letters etc. Works in caracters woven, carvd, engraved etc.

097 Ownership Book plates Ex libris

098 Other classes of works, based on inner caracteristics

.1 **Prohibited books**
Condemd by temporal or spiritual power. Books suppreat or censord. Library inferno. Obscure books, sold secretly

.11 Prohibited by religious authorities
Index expurgatorius. Index librorum prohibitorum. Books proscribed as contrary to church faith, tradition or disciplin

.12 Prohibited by civil authorities
Contrary to morality, government or social peace. Seditious, satirical or libelous books

.3 **Books lost, imaginary, supposed, projected**

.5 **Books with key**

099 Other classes of works, based on outer caracteristics Curiosa

.1 **Minute size, etc.**
Microscopic editions, dwarf books

Philosofy

100 Philosofy in general
Works limited to none of the 9 divisions

101 Utility

102 Compends, outlines

103 Dictionaries Cyclopedias

104 Essays, lectures, addresses

105 Periodicals Philosofic magazines

106 Societies: transactions, etc.

107 Study and teaching of philosofy

108 Polygrafy, extracts, maxims, etc.

109 History of philosofy

110 Metaphysics

111 Ontology
Nature of being Substance and form

112 Methodology
Philosofic classification of knowledge Terminology For book classification see 025.4

113 Cosmology
Philosofic theories and discussion; for philosofy of mathematic processes see 510.1

114 Space

115 Time

116 Motion

117 Matter

118 Force

119 Quantity Number

120 Other metaphysical topics

121 Theory of knowledge Origin Limits
Dout, denial, belief

122 Causation Cause and effect

123 Liberty and necessity
See also 233.7 Freedom; 234.9 Predestination; 159 Will

124 Teleology Final causes

125 Infinit and finite

126 Consciousness Personality See also 233.6 Doctrin

127 Unconsciousness Automata

128 The soul See 218 Natural theology; 237 Future state

129 Origin of the individual soul

.1 **By special creation** See also 213 Creation

.2 **By inheritance Traduction**
See 575.1 Evolution; 136.3 Mental heredity; 233.3 Spiritual heredity

.3 **Pre-existence**

.4 **Transmigration Palingenesis**

.5 **Emanation** See also 147 Pantheism; 212 Natural theology

130 Mind and body Anthropology
Psychic research

131 Mental physiology and hygiene
New thought. For influence of mind on body, mind cure, etc. see 615.851; see also 612.8 Physiology of nervous system, 613.8 Hygiene of nervous system

132 Mental derangements
See also 616.8 diseases of nervous system

.1 **Insanity** See 362.2 Asylums; 920.8 Lives; 616.84 Disease

.2 **Idiocy** See 362.3 Asylums; 920.8 Lives; 371.922 Education

.3 **Hypochondria Melancholy** See 616.852 Hysteria

.4 **Catalepsy** See 616.852 Hysteria

.5 **Ecstatics**

.6 **Kleptomania and other leading to crime**

.7 **Dipsomania and other leading to vice**
See also 178 Temperance; 616.861 Alcoholism

.8 **Mnemonic derangements**
Not knowing in one state what past in another. See also 154 Memory

133 Occultism Witchcraft Magic

.1 **Apparitions Ghosts**

.2 **Hallucinations**

.3 **Divination Oracles Second sight Omens Predictions**

.4 **Witchcraft Sorcery** See also 272.8 Persecutions

.5 **Astrology** See also 520.1 Astrology

.6 **Palmistry**

.7 **Humbugs Quackery**

.9 **Spiritism Table-tipping, etc.** See also 289.9 Sects

134 Hypnotism Animal magnetism Clairvoyance
Psychic phenomena, mesmerism

135 Sleep Dreams Somnambulism

136 Mental characteristics
See also 131 Mental physiology

.1 **As influenced by sex**
See also 376.2 Mental capacity of women

.2 " " " **physical surroundings**
See also 575.3 Evolution; 573.4 Natural history of man

.3 " " " **ancestry (Mental heredity)**
See also 575.1 Evolution; 233.3 Spiritual heredity; 129.2 Origin of soul; 613.92 Hygiene

.4 " " " **race Racial characteristics**
See also 572 Ethnology

.5 " " " **age**
See also 136.7 Childstudy

.6 " " " **physical structure and conditions**

.7 **Childstudy Paidology**
Including adolescence

.702 **Methods**
1 Laboratory
2 Home

.708 **Observations, records Albums**

.71 Body: structure, growth, care
Limited to development period
See also 136.3 Mental heredity; 371.7 School hygiene; 612.64 Embryology; 612.65 Growth; 613 Hygiene; 613.9 Heredity

.72 Mind
Limited to period of physical development
In a general library better clast in 130 and 150 with only references here

.73 Mental characteristics
Groupt by influence like 136.1–.6

.74 Children's point of view
Divided like the classification: e. g.
.7417 Ethics .7479 Games
.742 Religion .748 Literature

.75 Delineation of children
Psychology of children from authors' and artists' point of view

.757 **In art**

.758 **In literature**

.76 Abnormal children
Study of development. For methods of instruction see 371.9
For institutions see 362, 364

.761 Physically defectiv

1 **Blind**

2 **Def**

3 **Blind-def**

.762 Mentally defectiv
Divided like 132 Mental derangements; e.g. study of idiotic children 136.7622

.763 Morally defectiv Delinquents

.764 Wildings
Wildings: a class of children which, having been lost or deserted, have grown up away from the surroundings of children, alone or among animals. *Paidology* 1: 196 (July 1900)

136.765 Exceptionals Precocity
.766 **Backward children**
.767 Dependents
Homeless children, a public charge, lacking ideas and associations of children in families
.769 Other abnormal classes
.77 Boys The 'gang' The boy problem
.775 Girl problem
.79 Childhood Divided like 930–999
.791 The child among uncivilized and semicivilized peoples

137 Personality
Temperaments, idiosyncrasy

138 Physiognomy
Expression of mentality thru the body

139 Phrenology Mental photografs, etc.

140 Philosofic systems

The heds 140–149.9 are for the discussion of the systems as such. The philosofic works of authors of these various schools are clast under 190, not here. From these heds refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system

141 Idealism Transcendentalism
e. g. Plato, see 184.1, 888.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36

142 Critical philosofy
e. g. Kant, see 193.2

143 Intuitionalism
e. g. Reid, see 192.5; McCosh, see 191.5. See also 156 Intuitiv faculty; 171.2 Ethics.

144 Empiricism
e. g. Descartes, see 194.1; Bacon, see 192.1

145 Sensationalism
e. g. Locke, see 192.2

146 Materialism Positivism
e. g. Hobbes; Comte, see 194.8 See also 149.2 Realism

147 Pantheism Monism
e. g. Spinoza See 212 Natural theology

148 Eclecticism
e. g. Cousin, see 194.7

149 Other philosofic systems
See 211 Rationalism, skepticism; 214 Fatalism
.1 **Nominalism**
.2 **Realism** See 146 Materialism
.3 **Mysticism** See 273.2 Heresies; 189.5 Medieval philosofy
.4 **Associationalism**
.5 **Optimism Meliorism**
.6 **Pessimism**
e. g. Schopenhauer, see 193.7 See also 216 Evil; 233 Doctrin of man
.7 **Agnosticism**
See 273.8 Agnostic heresy
.8 **Nihilism**
.9 **Other systems**

150 Psychology

For related topics, see Mental in Relativ index following Tables
Works on psychology as applied to various subjects ar in general best clast with those subjects, but may be kept together here by adopting method used by Institut International de Bibliographie, to show subjects treated in relation; i. e. use of colon between numbers indicating such subjects; thus 150 may be followd by colon and number for the other subject; e. g. 150:37 Psychology applied to Education; 150:658 Psychology applied to Business management. As illustrated by 150:37 above, when number which follows colon is printed in the Tables with final 0, the 0 may, if preferd, be dropt and the combined numbers written e. g. 150:61 Psychology applied to Medicin, the same principle being applied to 00, e.g. 150:7 Psychology applied to Fine arts. Same psychologic relation (but with the emfasis laid on the other subject) may be exprest by converse arrangement of numbers, e.g. 700:15, 610:15, 658:15. Revision and expansion of 150 ar under way but ar not sufficiently developt for publicatiou in this edition

151 Intellect Capacity for knowing
.1 **Genius**
.2 **Mesurements Tests**
Including Intelligence tests. See also 371.26 Education mesurements and tests
.3 **Animal psychology Comparativ psychology**
Better clast in general use under 591.51

152 Sense Sense perceptions
See also physiology 612.84–.88
Passiv or receptiv faculty
.1 **Vision**
.2 **Hearing**
.3 **Smell**
.4 **Taste**
.5 **Touch**
.6 **Muscular sense**

153 Understanding
See also 612.821 Physiologic psychology
Activ or thinking faculty
.1 **Conception The concept or notion**
.2 **Association**
.3 **Abstraction**
.4 **Reflection**
.5 **Judgment**
.6 **Reasoning Induction and deduction**
See also 160 Logic

154 Memory Reproductiv power
See also 132.8 Mnemonic derangements
.1 **Mnemonics Methods of aiding memory**

155 Imagination Creativ power
.1 **Fancy Imaging power**

156 Intuitiv faculty Reason
For reasoning, see 153.6

157 Sensibility Emotions Affections

158 Instincts Appetites
Behaviorism

159 Will

160 Logic Dialectics

See 153.6 Reasoning power. For logic of chance, see 519 Probabilities

161 Inductiv
162 Deductiv
163 Assent Faith
See also 234.2 Doctrinal theology
164 Symbolic Algebraic
Logical machines
Logical topics
165 Sources of error Fallacies
166 Syllogism Enthymeme
167 Hypotheses
168 Argument and persuasion
169 Analogy Correspondence
See also 219 Natural theology

170 Ethics: theoretic and applied

Many topics in applied ethics occur also in law, specially in 343 Criminal law
See also 377.2 Ethical education.
.1 .2 Compends .3 Dictionaries .4 Essays .5 Periodicals
.6 Societies; Society for ethical culture .7 Study and teaching .8 Polygrafy
.9 History

171 Theories Philosofy of ethics
Theories of the basis of morality
.1 Authority Will of God Christian
For rules of Christian conduct see 241
.2 Intuition Moral sentiment
See also 143 Intuitionalism; 156 Intuitiv faculty
.3 Perfection
.4 Happiness Hedonism
.5 Utilitarianism
.6 Conscience Casuistry
.7 Evolutionary or educational
.8 Altruism
.9 Egoism

172 State ethics
.1 Individuals and the state Duties of citizens Patriotism
See also 320 Political science
.2 Duties of public offisers Official corruption
.3 Relations to church
Duty of state as to support and protection of church
See also 261.7 The church; 322 Church and state; 272 Persecutions
.4 International ethics Peace and war
See also 341 International law

173 Family ethics
.1 Marriage and divorce See also 347.6 Family law
.2 Polygamy and monogmy
.3 Duties of husbands and wives
.4 Infanticide
.5 Duties of parents
.6 Duties of children
.7 Home life
.8 Masters and servants See also 647 Servants; 331 Labor
.9

174 Professional and business ethics
.1 Clergy
.2 Physicians
.3 Lawyers
.4 Merchants Business men Business virtues and vices
.5 Speculation Mammonism Avaris
.6 Gambling Lotteries
See also 175 below
.7 Honor, honesty Dishonesty
Compact, promis; chicanery trickery
.8 Employers and employd
.9

175 Ethics of amusements For amusements, see 790
.1 Public shows and diversions Rinks, circuses, etc.
.2 Theater Opera Private theatricals
.3 Dancing Balls Round dances
.4 Games of skill: billiards, chess, etc.
.5 Games of chance: cards, dice, etc.
.6 Prize fighting Animal fighting: bull, dog, cock, etc.
.7 Racing: horse, boat, pedestrian, wheel, etc.
.8 Novel reading
.9 Betting Poolselling See 174.6

176 Sexual ethics
.1 Chastity
.2 Celibacy See also 254 Celibacy of clergy
.3 Continence
.4 Solitary vice
.5 Social evil See also 258 Parish care of fallen
.6 Adultery
.7 Immoral art
.8 Immoral literature
.9

177 Social ethics

.1 **Curtesy**
See also 395 Etiquet

.2 **Conversation Gossip**
See also 374.1 Self culture

.3 **Truth Slander Flattery**

.4 **Dress Display Sumptuary legislation**

.5 **Caste Class feeling Welth and rank**
See also 294 Brahmanism, and 323.31 Nobility, welthy class

.6 **Friendship Courtship Coquetry**

.7 **Philanthropy Humanity**

.8 **Solitude vs social obligations**

.9

178 Temperance Stimulants and narcotics

May be divided by form .01–.09; see Index table 2, following Relativ index
See also 132.7 Dipsomania; 331.84 Laboring classes; 613.3 Beverages; 613.8 Nervous system

.1 **Use of intoxicating drinks Beer drinking Medicinal use**
See also 616.861 Alcoholism; and Alcohol, Alcoholic, in Relativ index

.2 Total abstinence vs temperance

.3 Social drinking Wine at table Treating

.4 **Traffic in intoxicating drinks License High license**
See also 336.27 Taxation

.5 Prohibition
Including legal discussion of prohibition. See also 329.81 Prohibition party

.6 **Inebriates**
Discussion, reformation. For reformatories and inebriate asylums see 362.13

.7 **Tobacco**

.8 **Opium Hashish Chloral Ether and other drugs**

.9 **Gluttony and other intemperance**

179 Other ethical topics

.1 **Morals of the press Newspapers**
See also Journalism, 070.11

.2 **Cruelty**
Societies for preventing cruelty to children and also general humane societies covering work for both children and animals. See also 173.4 Infanticide; 331.3 Labor of children

.3 Cruelty to animals

.4 Vivisection
See also 614.22 Vivisection laws

.5 **Oaths**

.6 **Heroism Bravery Cowardis**

.7 **Life Dueling Suicide**
See also 394.8 Dueling as a custom

.8 **Pride Covetousness Envy Anger Sloth Jelousy Hate and other vices**

.9 **Humility Liberality Gentleness Patience Diligence Charity Modesty, and other virtues**

180 Ancient philosofers

See also 921.9 Biografy of ancient philosofy

181 Oriental philosofers

.1 **Chinese: Confucius, Mencius**

.2 **Egyptian**

.3 **Jewish: kabala; Philo, Maimonides**

.4 **Indian: gymnosophists**

.5 **Persian Sufism**

.6 **Chaldaean**

.7 **Sabeism**

.8 **Phenician**

.9 **Syrian**

182 Early Greek philosofers

.1 **Ionic: Thales, Anaximander, Anaximenes**
Materialistic. Things are as they seem

.2 **Italic or Pythagorean** Half idealistic

.3 **Eleatic: Xenophanes, Parmenides, Zeno, Melissus**
Idealistic. Existence denied. Thought is the only reality

.4 **Heraclitus**

.5 **Empedocles**

.6 **Atomistic**

.7 Democritus

.8 **Anaxagoras**

.9 **Other early Greek**

183 Sophistic and Socratic philosofers

.1 **Sophistic: Protagoras, Gorgias, Prodicus, Hippias**

.2 **Socrates**

.3 **Socratic**

.4 **Cynic: Antisthenes, Diogenes, Crates, etc.**

.5 **Cyrenaic: Aristippus, Hegesias, etc.**

.6 **Megaric: Euclid, Eubulides, Diodorus, etc.**

.7 **Elian and Eretrian: Phedo, Menedemus, etc.**

184 Platonic Older Academy

.1 **Plato**
Class his works preferably in 888.4, but discussion of his philosofy here

.2 **Speusippus**

.3 **Xenocrates**

185 Aristotelian Peripatetic Lyceum

.1 **Aristotle**
Class his works preferably in 888.5, but discussion of his philosofy here

.2 **Theophrastus**

.3 **Eudemus**

.4 **Strato**

186 Pyrrhonist New Platonist
- .1 Pyrrhonism Skepticism Pyrrho, Timon
- .2 New Academy: Arcesilaus, Carneades, Plutarch
  See 888.8 Plutarch's works
- .3 Eclecticism: Cicero See 875.4
- .4 Alexandrian, Neo-Platonic: Philo, Plotinus, Proclus, Porphyry, Iamblichus See 239.4 Apologetics; 273.1 Heresies

187 Epicurean: Epicurus Lucretius See also 871.1

188 Stoic
- .1 Zeno
- .2 Cleanthes
- .3 Chrysippus
- .4 Panaetius
- .5 Posidonius
- .6 Seneca See 878.5; 872.6
- .7 Epictetus
- .8 Marcus Aurelius

189 Early Christian and medieval philosofers
- .1 Gnosticism See 273.1 Basilides, Marcion. See 273.2 Manicheism
- .2 Patristic: Tertullian, Augustine, Clement, Origen
- .3 Arabian: Avicenna, Averroes
- .4 Scholastic: Scotus, Aquinas, Anselm, Abelard
- .5 Mystic: Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme

190 Modern philosofers

See also 921.1 to 921.8 Biografy of philosofy, or lives may be put here with works, with references only under 920 Biografy. Philosofic works are put here, not under the School or System to which the author may be thought to belong. See note under 140

191 American philosofers
- .1 Jonathan Edwards 1703–58
- .2 Orestes A Brownson 1803–76
- .3 Ralph Waldo Emerson 1803–82 See 814.36
- .4 Laurens P Hickock 1798–1888
- .5 James McCosh 1811–94
- .6 Noah Porter 1811–92
- .7 Francis Bowe 1811–90
- .8 William Torrey Harris 1835–1909
- .9 Other American philosofic writers

192 British philosofers
- .1 Bacon 1561–1626 See 144 Empiricism
- .2 Locke 1632–1704 See 145 Sensationalism
- .3 Berkeley 1685–1753 See 141 Idealism
- .4 Hume 1711–76 See 824.64 English essays
- .5 Reid 1710–96 See 143 Intuitionalism
- .6 Dugald Stewart 1753–1828
- .7 John Stuart Mill 1806–73
- .8 Spencer 1820–1903
- .9 Other British philosofic writers

193 German philosofers
- .1 Leibnitz 1646–1716
- .2 Kant 1724–1804 See 142 Critical philosofy
- .3 Fichte 1762–1814 See 141 Idealism
- .4 Schelling 1775–1854
- .5 Hegel 1770–1831
- .6 Schleiermacher 1768–1834
- .7 Schopenhauer 1788–1860 See 149.6 Pessimism
- .8 Lotze 1817–82
- .9 Other German philosofic writers

194 French philosofers
- .1 Descartes 1596–1650 See 144 Empiricism
- .2 Malebranche 1638–1715
- .3 Condillac 1715–80
- .4 Rousseau 1712–78
- .5 Diderot 1713–84
- .6 Lamennais 1782–1854
- .7 Cousin 1792–1867 See 148 Eclecticism
- .8 Comte 1798–1857 See 146 Positivism
- .9 Other French philosofic writers

195 Italian philosofers

196 Spanish philosofers

197 Slavic philosofers

198 Scandinavian philosofers

199 Other modern philosofers

The heds of 180–199 are for discussions of the systems of these men and for their philosofic works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and .5, where their works are more useful than in 184–5 because of their classic preminence.

Religion

200 Religion General works

201 Philosofy, theories, methods

202 Compends, outlines, systems

203 Dictionaries, cyclopedias

204 Essays, lectures, disputations, addresses
See also 252 Sermons

205 Periodicals, magazines, reviews

206 Societies: transactions, reports, etc.
General conferences. Societies whose work is largely done by paid offisers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject

207 Education: theologic seminaries, training schools Divided like 940–999

208 Polygrafy: collected works, extracts, etc.
Many collections go under a more specific hed; e. g. 240

209 History of religion
General, including ecclesiastic antiquities, statistics, etc. See also 270 for Christian religion, and 274–279 for Christian antiquities of special countries. See also note under 290

210 Natural theology

Concerns evidence in nature exclusiv of revelation, also Christian or skeptic discussion of specific topics (211–214, 216–218). For general defense of Christian theology, see 239 Apologetics, subdivided according to kind of criticism

211 Deism Atheism Theism
Skepticism. Infidelity. Rationalism, etc.
Atheism denies existence of God. Deism accepts existence, but denies revelation and rejects Christianity. Theism believes in a god supernaturally reveald, e. g. Judaism, Mohammedanism, Buddhism, etc. Arguments from nature in support of any of these views go here
See also 231 Christian theism; 239 Apologetics; 273.8 Agnostic heresy; 149.7 Agnosticism

212 Pantheism Theosofy See 147 Pantheism; 129.5 Origin of soul

213 Creation See 113 Cosmology Evolution See 575 Science
From religious viewpoint; attempts to harmonize *Genesis* and geology. See also metaphysics, 113 Cosmology; and pure science, 575 Evolution

214 Providence See 231.5 Doctrins Theodicy See 231.8 for Christian view

215 Religion and science See 239.8 Apologetics
Antagonism or reconciliation between science and Bible religion. Pro and con arguments by scientists. Bridgewater treatises. For creation, see 213

216 Good Evil Depravity See 149.6 Pessimism; 233.2 Sin

217 Worship Prayer
Tests of efficacy of prayer: prayer gage. See also 264.1 Prayer; 248 Personal religion

218 Future life Immortality Eternity
See 237 Future state; 128 The soul

219 Analogies Correspondences See also 169 Logic

220 Bible General works

For similar works limited to Old or New Testament, or individual books, see specific hed below

.1 Canon Inspiration Authorship Profecy

.2 Concordances Analyses

.3 Dictionaries Cyclopedias

.4 Original texts and early versions Codices
Heds for old and new testaments are given, as they are also used for 221 and 225

.42 Chaldee

.43 Syriac

.44 Hebrew

.45 Samaritan

.46 Other Semitic: Ethiopic, Arabic, etc.

.47 Latin, Itala, Vulgate

.48 Greek, Septuagint Aquila, Symmachus, Theodotion Hexapla

.49 Other early versions: Armenian, Coptic, Gothic, etc.
220.4 and 220.5 are pure texts. A Hebrew Bible with commentary goes in 220.7 with reference from 220.44

.5 Versions of Bible Polyglots Divide by languages, like 400
These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43

.6 Hermeneutics Exegesis Symbolism Typology

.7 Commentaries on whole Bible, and annotated editions
For notes, etc. on portions of the Bible, see the most specific hed in 221–229

.8 Special topics
Divided like general Classification; e. g. natural science of the Bible in 220.85

.9 Biblical geografy and history

.91 Biblical geografy, description, etc.
See 915.69, 913.33 Palestine

.92 Scriptural biografy
See also 922.1; 232.9 Lives of Christ

.93 Antiquities, archeology
See also 296 Jewish religion; 933 History of Jews

.94 Chronology

.95 History
See 933 Jews

221 Old Testament: texts, introductions, etc
Divided like 220; e. g. 221.7 Commentaries on Old Testament

222 Historical books
.1 **Pentateuch**
.11 Genesis
.12 Exodus
.13 Leviticus
.14 Numbers
.15 Deuteronomy
.16 Decalog
.2 **Joshua**
.3 **Judges and Ruth**
.4 **Samuel**
.5 **Kings**
.6 **Chronicles**
.7 **Ezra**
.8 **Nehemiah**
.9 **Esther**

223 Poetic books
.1 **Job**
.2 **Psalms**
.3 Authorship and chronology
.4 Special groups
Messianic; Greater Hallel; Lesser Hallel; Vesper psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic five books, Psalms 1–41; 42–72; 73–89; 90–106; 107–150
.5 Liturgic use by Christians Metrical versions
See 264.038 Anglican psalter; 245 Hymnology
.6 Commentaries on psalms
.7 **Proverbs**
.8 **Ecclesiastes**
.9 **Song of Solomon, or Canticles**

224 Profetic books
.1 **Isaiah**
.2 **Jeremiah**
.3 **Lamentations**
.4 **Ezekiel**
.5 **Daniel**
.6 **Hosea**
.7 **Joel**
.8 **Amos**

224.9 **Other minor prophets**
.91 Obadiah
.92 Jonah
.93 Micah
.94 Nahum
.95 Habakkuk
.96 Zephaniah
.97 Haggai
.98 Zechariah
.99 Malachi

225 New Testament: texts, introductions, etc.
Divided like 220

226 Gospels and Acts
.1 **Harmonies**
.2 **Matthew**
.3 **Mark**
.4 **Luke**
.5 **John**
.6 **Acts of the apostles**
.7 **Miracles**
.8 **Parables**
.9 **Lord's prayer**

227 Epistles
.1 **Romans**
.2 **Corinthians 1**
.3 **Corinthians 2**
.4 **Galatians**
.5 **Ephesians**
.6 **Philippians**
.7 **Colossians**
.8 **Other Pauline epistles**
.81 Thessalonians 1
.82 Thessalonians 2
.83 Timothy 1
.84 Timothy 2
.85 Titus
.86 Philemon
.87 Hebrews
.9 **Catholic epistles**
.91 James
.92 Peter 1
.93 Peter 2
.94 John 1
.95 John 2
.96 John 3
.97 Jude

228 Apocalypse Revelation

229 Deuterocanonical books Apocryfa Pseudepigrafa

.1 **Esdras 1, 2**
.2 **Tobit, Judith, Esther**
.3 **Wisdom**
.4 **Ecclesiasticus**
.5 **Baruch, Epistle of Jeremy, Song of the three children**
.6 **Story of Susanna, History of Bel and the dragon, Prayer of Manasses**
.7 **Maccabees 1, 2, 3, 4**
.8 **Pseudo gospels**
.9 **Other pseudepigrafa**
.91 Old Testament
.911 **Historical books**
.912 **Poetic books**
.913 **Profetic books Jewish apocalypses**
Book of Enoch; Assumption of Moses; Epistle of Baruch; Apocalypse of Baruch; Ascension or vision of Isaiah; 4th book of Esdras; Book of Eldad and Modad; Apocalypse of Elias; Apocalypse of Zephaniah; Apocalypse of Daniel
.914 **Testaments**
Testament of the 12 patriarchs; Testament of Abraham; Testament of Job
.915 **Other books by or about the profets**
Books of Elias, Jasher, Jesirah, Zorah
.92 Pseudepigrafa of the Acts of the apostles
.93 Pseudepigrafa of the epistles
.94 Pseudepigrafa of New Testament apocalypses
.95 Other recently discovered pseudepigrafa
.951 **Sayings of Jesus**

230 Doctrinal Dogmatics Theology

General doctrinal works may be subdivided by churches like 280–289. See also 252.3 Clas here polemics either offensiv or defensiv, when distinctly doctrinal; but clas in 280 history of a sect, even if largely controversial and of a limited period. Clas controversy about a special doctrin with its subject; e.g. controversy on the atonement 232.3

231 God Unity Trinity

.1 **God the Father, Creator**
.2 **God the Son, Redeemer**
Second person of the Trinity, irrespectiv of his appearance on earth as the historic Christ
.3 **God the Holy Ghost, Giver of Life, Sanctifier**
.4 **Divine attributes: omniscience, omnipresence, omnipotence**
.5 **Divine providence** See also Natural theology 214
.6 **Divine love and wisdom**

231.7 **Divine law Government of God**
.73 Miracles
Supernatural events. Wonders. Thaumaturgy. The miracle as an argument of faith; belief in miracles. Bible miracles and post-Bible miracles. Miraculous places. Miraculous objects: relics, statues, images. Miraculous cures. Stigmata
.74 Revelation, vision and appearing of God
.8 **Theodicy**
Vindication of God's justis in permitting evil. See also Natural theology, 214
.9

232 Christology

.1 **Incarnation Messiah**
.11 Messiah according to the Bible
.12 Messianic profesies
.121 **Protevangelium Promis to Adam of a redeemer**
.122 **Promises to the patriarchs**
.123 **Profesy of Jacob**
.124 **Promises to David**
.125 **Profesies in Psalms**
.126 **Profesy of Isaiah**
.127 **" " Daniel**
.128 **Other profesies: Zechariah, Jeremiah etc.**
.129 **Apocryfal profesies**
.13 Waiting for Messiah
.2 **Logos, the Word of God**
.3 **Atonement**
.4 **Sacrifice**
.5 **Resurrection**
.6 **Second coming** See also 286.7 Second adventists
.7 **Judgment**
.8 **Divine humanity**
Divinity of the man Jesus, pro and con
.9 **Lives of Christ**
General biografies of Christ: His person, teaching, works, influence
.91 Annunciation
.92 Infancy
.921 **Nativity**
.922 **Adoration of the shepherds**
.923 **The 3 wize men Epiphany**
.924 **Circumcision**
.925 **Massacre of innocents**
.926 **Flight into Egypt**
.927 **Retired life in Nazareth**
.928 **Presentation in temple**
.929 **Jesus among the doctors**
.93 Holy family
.931 **Mary**
.932 **Joseph**
.933 **Parents of Mary: Joachim, Anne**
.94 John the Baptist, forerunner of Christ

232.95 Public life of Christ
.951 **Baptism**
.952 **Temptation**
.953 **Calling apostles**
.956 **Transfiguration**
.957 **Lord's supper**
.958 **Last words**
.96 Passion of Christ
.961 **Betrayal by Judas**
.962 **Trial Condemnation**
.963 **Crucifixion Deth**
.964 **Burial Laying in grave**
.966 **Relics of passion**
.967 **Descent into hell**
.97 Resurrection and ascension
.971 **Appearances of Christ**
.972 **Ascension**
.98 Agrapha
Christ's words not contained in Gospels
.99 Legendary and apocryfal accounts of Christ

233 Man

.1 **Origin Fall**
.11 Creation of man Preadamites Coadamites
.12 Primitiv state of innocence Elevation to supernatural order Theory of supernatural and of state of pure nature
.13 Erthly paradise Eden
.14 Fall Nature of original sin Its results Transmission
See also 273.5 Pelagian heresy
.2 **Sin**
.21 Mortal and venial sin
.22 Sins against the Holy Ghost
.3 **Moral and spiritual heredity**
See also Biology, 575.1; Psychology, 136.3; Metaphysics, 129.2
.4 **Accountability**
.5 **Natural and spiritual body**
.6 **Personality** See also Metaphysics, 126
.7 **Freedom** See also 234.9; 123; 159
.8
.9

234 Salvation Soteriology

.1 **Grace**
See also 273.7 Jansenist heresy
.11 Actual grace
.111 **Nature and form**
.112 **Necessity**
Doctrin of Pelagians, Socinians, Remonstrants and Rationalists; of Lutherans, Calvinists, De Bay, Jansen and Quesnel
.113 **Free grace**
.114 **Distribution of the graces**
.115 **Relation between grace and free will Premotion Molinism**
See also 234.9 Predestination
.12 Sanctifying grace
.123 **Nature of sanctifying grace**
.13 Merit
.14 Innate virtues
.15 Gifts of the Holy Ghost
.2 **Faith**
.21 Nature
Natural elements and natural motivs in exercise of faith. Formal motiv: authority of God
.22 Necessity of grace for belief
.23 Relation between faith and science, revelation and reason
See also 215 Religion and science; 239.7 Apology against rationalists
.24 Rule of faith Test of truth in theology
See also 262.7 Tradition; 262.8 Authority of the church
.25 Reveald mysteries in general
.26 Religious doubt
.3 **Redemption**
.4 **Regeneration**
.5 **Repentance**
.6 **Obedience**
.7 **Justification**
.8 **Sanctification**
.9 **Predestination and freewill** See also 233.7; 123; 159

235 Angels Devils Satan

236 Eschatology Last things

.1 **Deth**
.2
.3 **Millennium**
.4 **Intermediate state Sheol Hades**
.5 Purgatory
.6 Paradise Limbus patrum
.7 Limbo Limbus infantum
.8 **Resurrection**
.9 **Judgment** See also Christology, 232.7

237 Future state See also Natural theology, 218

.1 **Eternity**
.2 **Immortality**
.3 **Conditional immortality**
.4 **Heven**
.5 **Hell Gehenna**
.6 **Retribution Future punishment**
.7 **Eternal punishment** See also 289.1 Universalists

238 Creeds Confessions Covenants Catechisms
Divided more closely if wisht like 280–289; e. g. 238.19 Greek church

.1 **Apostles, Nicene, and Athanasian creeds**
.2 **Creed of Pius 4 (Trent) and later Roman**
.3 **Anglican 39 articles, A. D. 1551** See also 264.037 Liturgy
.4 **Continental protestant Lutheran Calvinist Dort**
.5 **Westminster Saybrook Cong'l Cambridge Savoy**
.6–.9 **Of other sects** Divided like 286–289

239 Polemic theology Apologetics Evidences of Christianity
If preferd, courses of apologetic lectures may be kept together; e. g. 239.01 Bampton; .02 Boyle; .03 Hulsean; .04 Bohlen; .05 Paddock; .08 Miscellaneous. More usefully each book is clast under the most specific hed that will contain it
See also natural theology 211–218 and doctrins 231–237 for discussion of separate topics

.1 **Apostolic age**
.2 Against the Jews
.3 Against the heathen
.4 Against the Neo-Platonists See 273.1 Gnostic heresy
.5 **Against the English and Scotch deists** See 211 Deism
.6 **Against the French encyclopedists**
.7 **Against the rationalists**
See 211 Natural theology; 273.8 Agnostic heresy; 149.7 Agnosticism
.8 **Against the scientists** For nonchristian view, see 215
.9 **Other special denials**

240 Devotional Practical

241 Didactic
Specifying the Christian's duty to do and to avoid. For Catechisms see 238

242 Meditativ, contemplativ
Consolatory. See also 248 Personal religion

.1 **Thomas à Kempis**

243 Hortatory, evangelistic
Urging sinners to Christian repentance

244 Miscellany: religious novels, Sunday school books, allegories, satires, etc.
But clas Bunyan in 823.42 because of his literary prominence

245 Hymnology Religious poetry
Hymns without music. For hymns with music see 783.9
Divided by languages, like 400, and then by churches, like 280, if denomination is clearly markt
See also 223.5 Psalms; 264.038 Psalter

246 Ecclesiology Symbolism Religious art
246–7 cover religious bearings. For art side see 700

.1 **Byzantine and Gothic ecclesiology**
See 723 Medieval architecture; 726 Religious architecture
.2 **Primitiv church and heathen art**
.3 Images in churches Iconoclasts
.4 **Protestantism and religious art**
.5 **Emblematic and cryptografic art: catacomb symbols**
.6 **Liturgic symbolism: altar, colors, lights**
See also 264 Public worship
.7 **Evangelistic use of music and art, pictorial and plastic: Della Robbias**
.8 **Eucharistic music: Ambrose, Gregory the Great Later development** See also 783 Sacred music; 264.2 Public worship
.9

247 Sacred furniture Vestments Vessels Ornaments, etc.

.1 **Font Baptistery Lectern Pulpit**
.2 **Tabernacle Rood screen Reredos**
.3 **Sculpture and mortuary design**
See 718 Monuments; 726.8 Mortuary bildings; 730 Sculpture
.4 **Illumination Mosaics Enamels Staind glass**
See also 745 Ornamental design; 748 Staind glass
.5 **Fresco and religious painting** See also 750 Painting
.6 **Pallium Miter Crozier Ring**
.7 **Vestments and altar cloths**
.8 **Eucharistic vessels** See also 265.3 Sacraments
.9 **Ornaments, etc: crucifix, banners, thurible, incense**

248 Personal religion Asceticism
See also 273.2 Ascetic heresy

249 Family devotions See 264 Public worship

250 Homiletic Pastoral Parochial

251 Homiletics Preaching See 264.6 Public worship
Divided like 252, for matter *about* special kinds of sermons

252 Sermons
When too varied for any of the subheds .1–.9, may be divided with .0 by churches and sects, like 280; e. g. protestant episcopal sermons 252.03, but a collection of bishop's addresses 252.1. Sermons on specific topics ar more useful, like other pamflets, clast with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, 331.892. Tho the 9 heds below ar for collections and cross references, they may be used for separate sermons if preferd

.1 **Episcopal charges Pastorals**
.2 **Controversial Polemic**
.3 **Doctrinal Dogmatic** See also 230 Dogmatics
.4 **Practical Devotional**
.5 **Academic Educational** See also 378.7 Baccalaureates
.6 **Political Public occasions and duties**
Thanksgiving and Fast day
.7 **Consecration Ordination Installation**
See also 265.4 Ordination; 265.9 Consecration; 262.16 Orders
.8 **Expository**
.9 **Memorial Obituary Biografic Historical**
Memorial of a special church goes with that church in 280. See also 920 Biografy

253 Pastoral visitations, evangelistic

254 Cleric support Celibacy
See also 176.2 Sexual ethics; 248 Asceticism; 613.89 Hygiene

255 Brotherhoods Sisterhoods
In the parish. For Monastic orders, see 271

256 Societies for parish work: gilds, sodalities
Local societies. Discussion of desirability of such work. For general societies see 206 and 267

257 Parish educational work
Schools, libraries etc. See also 377.5 Education; 027.8 Parish libraries

258 Parish welfare work
Work for sick, fallen, afflicted etc. See also 265.8 Ministry of sick; 176.5 Social evil

259 Other ministrations and work

260 Christian church: institutions and work

261 The church
Its influence on morals, civilization, etc. Relation to social questions, laboring classes, etc.

.1
.2
.3 **Church vs barbarism**
.4 **Church and morals**
.5 **Church and intellectual development** See also 377.8 Education
.6 **Church and civilization**
.7 **Church and civil government**
See 172.3 State ethics; 322 Church and state
Their relations: religious liberty; tolerance and intolerance; state religion; patronage of church by civil government, suppression; disestablishment; union of church and state; concordat; etc.
.73 Power of church over temporal power of princes Theocracy
.75 The church and modern freedom
Papal syllabus of Pius 10
.8 **National churches vs organic unity**
.9

262 Ecclesiastic polity
.1 **Ministry**
.11 Apostolic succession
.12 Episcopate
.13 Papacy Primacy Papal supremacy
.131 **Caracteristics of the papacy**
Primacy of see of St Peter and pontifical infallibility
.132 **Temporal power of pope Pontifical states**
.135 **Conclave Election of pope**
.136 **Organization of the pontifical curia**
.14 Priest Presbyter Minister Lay ministry
.15 Deacon Deaconess Evangelist
.16 Orders Ordination See 265.4 Sacraments; 252.7 Sermons
.17 Episcopal
.18 Presbyterian
.19 Congregational
.2 **Parish Congregation** See 250 for Parochial work
.3 **See Diocese Cathedral system**
.4 **Council Synod Presbytery Congregation Convention**
Polity only, here. Proceedings go with churches, 281–9
.41 National
.5 **General or ecumenic council** See also 270.2
.6 Canons Decrees
.7 **Traditions**
.8 **Authority Church and ministerial Private judgment**
.9 **Disciplin Courts Trials** For Church law see 348

263 Sabbath Lord's day Sunday
.1 **Hebraic sabbath**
.2 **Modern sabbath Seventh day**
.3 **Lord's day Christian Sunday**
.4 **Sunday observance**
.5 Work
.6 Amusement
.7 Opening libraries and museums See also 024.4 Library rules
.8 Sunday laws
.9

264 Public worship Divine servis Ritual Liturgy
Prayer books. See also 246 Ecclesiology; 247 Sacred furniture. General works ar divided with .0 by churches like 280; e. g. Roman catholic prayer book 264.02. Under various churches the servises may be further divided, as e. g.
.03 Anglican and American P. E. ritual
.031 Calendar Festivals and fasts See also 529.6 Chronology
.032 Lectionary and rubrics
.033 Morning prayer Litany
.034 Evening prayer Vespers Compline
.035 Sacraments, ordinances, and servises See also 265 Sacraments
.036 Collects, epistles and gospels
.037 Ordinal Articles Creeds See also 238.3 Creeds, doctrins
.038 Psalter and other See 223.5 Psalms; 245 Hymnology
.039 History of successiv prayerbooks
.1 **Prayer Extempore Liturgic**
See also 248–249 Private and family prayer
.2 **Music Singing Instrumental Praise meeting**
See also 783 Sacred music; 246.7, 246.8 Ecclesiology
.3 **Scripture readings**
.4 **Antiphonal or responsiv readings**
.5 **Confessions of faith Creeds** See also 238 Creeds
.6 **Sermons Exhortations Instructions**
See also 251 and 252 Preaching and sermons
.7 **Prayer and conference meetings**
.8 **Clas and covenant meetings Love feasts**
.9 **Sacramentals** See also 265 Sacraments

265 Sacraments Ordinances
.1 **Baptism**
.2 **Confirmation Church fellowship**
.3 **Eucharist Holy communion Sacrifice**
.4 **Holy orders Ordination** See also 262.16 Ministry; 252.7 Sermons
.5 **Marriage** See also 173 Ethics of the family
.6 **Penance Confession Absolution**
.61 Contrition See also 234.5 Repentance
.62 Confession

265.63 Satisfaction
.64 Absolution
.65 Censures: excommunication, suspension, interdiction
.66 Indulgences
.67 Ancient public penance
.68 Reconciliation of heretics
.69 Ministration of the sacrament
.7 **Extreme unction Viaticum**
.8 **Ministry of sick and ded: faith cure, healing, burial**
.9 **Consecration Dedication** See 262.16 Ordination; 252.7 Sermons

266 Missions: home and foren
Subdivided by churches, like 280. See also 269 Parish missions; 377.6 Missionary schools
Missions in special countries or places covering the work of several sects go under the geograficly divided Religious history 274–279. The mission of a single sect in a special country or place may, according to preference, be clast with Missions in 266, subdivided by sect, or with Religious history 274–279

267 Associations
General societies demanding of members activ personal work. For local societies, see 256. For Bible, tract, and similar general societies see 206
.1 **Religious societies of both men and women**
.11 U. S. Christian commission
.15 Salvation army
.2 **Religious societies of men**
For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies 207; Bible societies, 206
.21 17th century or earlier } May be divided by countries like 940–999
.22 18th century }
.23 19th century; interdenominational and undenominational
.231 In educational institutions
Divided like 940–999. If preferd, cancel .231 and put all together in .234–9. For work of Y. M. C. A. see 267.361
.232 Nasmith societies
.233 Young men's Christian unions; i. e. not "evangelic," etc.
.234–.239 Others Divided like 940–999
.24 19th century; denominational
.241 In educational institutions
Divided like 282–289. If preferd, cancel .241 and put all together in .242–9. For work of Y. M. C. A. see 267.361
.242–.249 Others Divided like 282–289
.3 **Young Men's Christian associations**
Activ membership confined to members of "evangelic" churches
To shorten the number, X may be used for 267.3 thruout; i. e. X 19 would mean "Work in small towns"
.31 **Objects, field and extension**
.311 Need and objects
.312 Limits: for and by young men and distinctivly religious
.313 Relation to the church

267.314 International work
.315 National work
.316 State work
.317 District work
.318 Work in towns able to support a general secretary
.319 Work in small towns
Methods only. For history, reports and periodicals see 267.39; for secretaries see 267.341

.32 **Bildings** See also library bildings 022
.321 Location Provision for growth
.322 Materials and protection against fire
.323 Plans Number, size and arrangement of rooms
.324 Reception, social rooms and parlors
.325 Library Reading, lecture, and clas rooms See 022
.326 Administration and special rooms Boys' rooms
.327 Physical culture rooms
.328 Lighting, heating, and ventilation
.329 Fixtures, furniture, and fittings

.33 **Organization**
.331 Incorporation Constitution and bylaws
.332 Branches and suborganizations Including women's work for young men
.333 Managers Offisers serving without pay
1 Trustees (in charge of real estate)
2 Directors
3 President
4 Treasurer
5 Recording secretary
6 Executiv or corresponding secretary
.334 Standing committees
1 Importance; enlistment and composition
2 Principles and methods of organization
3 Names and duties See also Department work, 267.35
.335 Membership
1 Membership committee
2 Classes of membership
3 Securing and retaining members
4 Development of activ members
5 Associate membership and its relations
For members' meeting see Social work, 267.3544

.34 **Salaried offisers: duties, qualifications, training**
.341 General secretary and assistants
Including international and state secretaries. See also 267.314–.316
1 Offis and work
2 Qualifications
3 Relationship
31 To churches and pastors
32 To offisers, directors, and committees
33 To other employees
34 To the members
35 To the religious work
36 To the business community
37 To fellow secretaries
4 Personal hints
41 Considering a call and beginning work
42 Spiritual and intellectual growth and helth
43 Offis work, system, and economy
44 Personal appearance and conversation
45 Ladies' company
46 "Secretarialism"

267.342 Librarian and assistants
May be divided like 267.341. See also Library administration, 025 and 267.3532
.343 Physical director and assistants
May be divided like 267.341. See also 267.355 and 613.7
.344 Other salaried offisers
.345 Training; need and methods, demand and supply
.346 Training schools
.347 Training by apprentisship
.348 Institutes
.349 Conferences
Methods only; for reports see 267.39

.35 **Local work by departments**
.351 Business department
1 Finance committee
2 Annual budget
3 Endowments and other sources of income
4 Solicitation, collection and disbursement
5 Financial bookkeeping
6 Debt, taxes, etc.
7 Records and statistics
8 Advertizing, including anniversaries and parlor conferences
9 Printed matter Including bulletin, prospectus, etc.
352 Religious department
1 Committees
2 Individual Bible study Methods and helps
3 Bible classes
4 Training classes Personal work
5 Bible readings Song servises
6 Evangelistic meetings
7 Social religious meetings
8 Other meetings in the rooms
9 Work outside the rooms
In public institutions, sermons to young men, distribution of religious papers, invitations, etc.
.353 Educational department
1 Committees
2 Library See 267.342 and 025
3 Reading room
4 Classes
5 Lectures and talks
6 Literary societies
.354 Social department
1 Committees
2 Reception committee
3 Social rooms and fittings See 267.32
4 Receptions Socials Entertainments
5 Music
6 Amusements Including games of skill See also 794
.355 Physical department
1 Committees
2 Aim and benefit of department
For Physical director see 267.343; Equipment, methods, etc. 613.7

267.356 Information, relief, etc. department
1 Boarding house bureaus
2 Employment bureau
3 Savings bureau
4 Visitation of sick
5 Destitute young men
.357 Boys department
1 Committees
2 Religious work
3 Educational work
4 Social work
5 Physical work
6 Information, relief, etc.
.359 Janitor's department: bilding; care, cleaning, safety **Police**
.36 Work among special classes
Y. M. C. A. only; other religious societies of men go in 267.2
.361 College and school
1 History and methods in general
2 International reports Including Northfield meetings
3 International periodicals
For state and sectional reports and periodicals see 267.39
.362 Railroad employees
1 History and methods in general
2 International reports
.363 Commercial travelers
.364 Foren-speaking
Divided like 400; e. g. 3 German, 4 French, 5 Italian, etc.
.365 Negroes
.366 American Indians
.367 Soldiers U. S. Christian commission, 267.11
.368 Sailors
.369 Other Policemen, firemen, fishermen, lumbermen, mutes, etc.
.39 History, reports, periodicals, etc. For methods see 267.314–.319
.391 International history
.392 International reports, etc.
1 Reports
2 Other pamflets
Reports, etc. of international college and railroad work go in 267.361–.362
.393 International periodicals International college periodicals, 267.3613
.394–.399 Special countries Divided like 940–999
.4 Religious societies of women
.43 19th century; interdenominational and undenominational
.432 Women's Christian associations
Divided like 267.3. To shorten the number, W may be used for 267.432 thruout; e. g. W 1 would mean 'Objects, field and extension'
.433 King's daughters
.44 19th century; denominational Divided like 282–289
.5 Young Women's Christian associations
Activ membership confined to members of 'evangelic' churches
Divided like 267.3–.399
To shorten the number Y may be used for 267.5; e. g. Y3, Organization, insted of 267.53

267.6 Religious societies of young people For Sunday schools see 268
.61 Interdenominational and undenominational
.613 Young people's society of Christian endevor
1 Reports, etc.
2 Periodicals
.62 Denominational Divided like 282–289
.7 Religious societies of boys Not Y. M. C. A. Divided like 267.6
.8 Religious societies of girls Not Y. W. C. A. Divided like 267.6

268 Sunday schools

.1 Establishment Administration
.12 Constitution Bylaws
.14 Business department
.142 Finances
2 Budget
3 Regular subscriptions Sistematic giving Duplex envelop sistem
4 Soliciting Collecting
6 Disbursements
.144 Printing
Programs, announcements, school paper, school manual
.145 Publicity
Local pres, concerts, posters, invitation cards, 'go to Sunday school' buttons
.146 Bilding up attendance
Entertainments: concerts, socials, picnics, Christmas tree
.15 Branches Missions
.2 Premises Equipment
.21 Grounds
Site; provision for growth
.22 Bildings
See also 726.4 Architecture; 697 Heating and ventilating; 628.9 Lighting
.23 Plan and arrangement of rooms
.231 Administrativ rooms and offises
.232 Study, lecture and assembly rooms
.233 Library and museum
.234 Manual work rooms
.235 Social rooms
Parlors, kitchens, pantries etc.
.236 Gymnasium
.237 Sanitation Lavatories
.239 Accessories
Elevators, lifts, telefones etc.
.24 Furnishing Decorating
.241 Furniture
Blackboards, desks, chairs, benches, sand tables, book cases, stereopticons, maps, globes
.245 Decoration
.3 Personnel
.32 Trustees Directors
Body responsible for policy, funds, appointments
.33 Administration Supervision
.332 Pastor Associate pastor

268.333 **Superintendent Associate or assistant superintendents**
2 Relation to pastor
3 " " church aims
4 " " congregation
5 " " school
52 Relation as chief executiv
53 " to teachers
54 " " pupils
55 " " Sunday school exercizes
.334 **Secretarial force**
2 Registrar
3 General secretary
4 Report secretary
5 Custodian of supplies
6 Superintendent of absentees
.335 **Treasurer**
.336 **Librarian**
For library see 027.8
.337 **Chorister**
For music see 783.7
.338 **Director of hand work**
.339 **Other**
.34 Committees
Publicity, reception, welcome, evangelism and home cooperation, social life and recreation, special days, music, library
.37 Teachers
.371 **Qualifications Personality**
.372 **Need of training; kind, amount**
.373 **Examination Certificates**
.374 **Appointment Organization of teaching force**
.376 **Promotion Salary Amount of servis**
.4 **School organization**
.42 Membership
.422 **Extension department**
District plan, permanent visiting committee, house to house visiting
.423 **Welcome committee at church servises**
.424 **Securing new scholars**
Members of school bring new scholars
.43 Teaching departments
.432 **Children's division**
Cradle roll, birth–3 yrs; beginners dep't, 4–5 yrs; primary, 6–8 yrs; junior, 9–12 yrs
.433 **Young people's division**
Intermediate dep't, 13–14 yrs; senior, 15–17 yrs; young people's, 18–24 yrs
.434 **Adult division**
Men's dep't; women's dep't; parents training clas
.435 **Home departments**
Domestics, invalids etc.: i. e. those carrying on regular Sunday school course but prevented from attending
.436 **Correspondence courses**
.437 **Special classes**
Army, navy, special types, races, etc.
.44 Grading Graded school
.45 Scholarship records Marking sistem
.46 Examinations Promotions
.47 Certificates Diplomas

268.48 Outside activities
For discussions of relation of Sunday school to church, community, weekday schools, fisical activities, clubs etc.
.5 **Disciplin Incentivs**
.51 Rules
.52 Attendance Tardiness Absence
Help of home influence; invitations and reports to parents. Follow-up cards. Attendance charts
.53 Rewards Inducements
Prizes, decorations. Printed honor roll. Cards to be redeemd with reward. Special holiday or summer plans
.54 Punishment Penalties
.6 **Sistems Methods of instruction and study**
.61 Lesson sistems
.62 Textbook method Graded subject matter
.63 Lecture method
.635 **Visual instruction**
2 Stereopticon lantern and slides
3 Motion pictures: travel, missions
4 Pictures
5 Charts
6 Maps
7 Blackboard
.64 Inductiv method
.65 Question and anser method Reviews
.66 Heuristic or source method
Use of Bible, catechism, church doctrin
.67 Dramatic interpretation of Biblical events
See also 244 Religious miscellany; 702.1 Passion plays; 822.1 Erly English drama
.68 Manual work
.682 **Note-book work**
Copying or original; titles or verses describing pictures; written ansers to questions; historic outlines; thesis work
.683 **Geografy work**
Maps: line work, map marking, modeling in clay and pulp
.684 **Illustrativ work**
Picture books; simbolic and descriptiv drawings; sand-table picture work; constructing models of life and customs
.685 **Decorativ work**
Designing, lettering, illuminating
.687 **Museum work**
Collecting and constructing illustrativ material
.69 Other
.7 **Servises**
.72 Order of servises
.73 Music and worship
.75 Rallies
Rally day, children's day, parents' day
.76 Anniversaries Special days and festivals
Christmas, Lent, Easter, Thanksgiving
.77 Vacations
.8 **Sunday schools of various denominations**
Subdivided like 280
269 Revivals Retreats Parish missions

270 General history of Christian church

Ancient period: to conversion of Germans

See 281.1–281.4, for collected works of early theologic writers, etc. 270 is for religious history of these *periods*
For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2

.1 **Apostolic Nativity to Constantine**

.2 **Period of ecumenic councils Centralization 325-787**
The Greek church acknowledges these 7 councils as really Ecumenic. Anglicans generally recognize only the first 6. See also 262.5 Polity

.21 First of Nice A. D. 325
.22 First of Constantinople 381
.23 First of Ephesus 431
.24 Chalcedon 451
.25 Second of Constantinople 553
.26 Third of Constantinople 680–81
.27 Second of Nice 787

Medieval period: Charlemagne to Luther

270.3 **Charlemagne Papacy vs empire 787–1054**
Church planted among the Germans. Feudalism. Great schism, east vs west, 1054

.4 **Hildebrand Roman supremacy 1054–1200**
Temporal power. Scholasticism. First 3 crusades

.5 **Later medieval Renaissance 1200–1517**
Innocent 3. Papal schism. Avignon. Nominalism vs realism. Greek church under Moslems. Education. Arts. Inventions Pre-reformation

Modern period: Reformation to present

.6 **Reformation Counter reformation 1517–1648**
Council of Trent, A. D. 1545–63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious wars. Jesuit missions in east. See also reformation in England, etc. 274.2

.7 **Peace of Westphalia to French revolution 1648–1789**
Union of church and state. Deism. Materialism

.8 **Modern Rationalistic 1789–**
Holy alliance. Greek church in Russia. Atheism. Pantheism. Protestant missions

271 Religious orders

Including monasticism monastic foundations, monasteries
See also 255 Brotherhoods; 726.7 Architecture of monasteries, etc.

.1 **Benedictines founded 529**
.12 Cistercians " 1098
.125 Trappists " 1150
.13 Olivetians
.2 **Dominicans " 1170**
.3 **Franciscans " 1182**
.31 Original order, not divided
.32 Conventuals

271.33 Observantines
.34 Récollets
.35 Alcantarines
.36 Capuchins founded 1525
.4 **Augustinians " 1256**
.5 **Jesuits " 1540**
.6 **Passionists, 1720 Redemptorists, 1732**
.7 **Lesser Roman orders**
.71 Carthusians, founded A. D. 1086
.73 Carmelites 12th century
.75 Sulpicians, 1642
.76 Oblates
.77 Lazarists, 1624
.78 Christian Brothers, 18th century De la Salle
.79 Other lesser Roman orders
.8 **Anglican brotherhoods**
.9 **Sisterhoods**
.91 Sisters of Charity Vincent de Paul founded A. D. 1629
.92 Sisters of Mercy Augustinian " " 1831
.93 Ladies of the Sacred Heart Jesuit " " 1800
.94 Sœurs de bon Secours Nurses
.95 Little Sisters of the Poor
.96 Contemplativ Cloisterd nuns
.97 Other Roman sisterhoods
.971 Carmelites
.972 Second of St Dominic
.973 Franciscans
.974 Ursulines A. D. 1537
.975 Of the Visitation " 1610
.976 Of St Joseph " 1650
.977 Of the Presentation " 1777
.98 Anglican sisterhoods
.99 Other protestant orders Deaconesses (Kaiserwerth)

272 Persecutions

See also special sects, 280; and history of special countries, 940–999

.1 **Apostolic church by imperial Rome 1st–4th century**
.2 **Heretics by Inquisition or Holy Offis Since 1470**
.3 **Waldenses and Albigenses 11th–12th century**
By Roman church. See also 284.4, Protestant sects
.4 **Huguenots French protestants**
By Roman church. St Bartholomew, 1572. Edict of Nantes, 1598; revocation, 1685
See also 284.5 Protestant sects
.5 **Molinists and Quietists**
By Roman catholics. Close of 16th century to destruction of Port Royal, A. D 1709. See also 273.7 Heresies

272.6 **Marian Anglican reformers by Mary A. D. 1553–58**
.7 **Elizabethan Later 16th century**
Persecution of Roman church by Anglicans
.8 **Quakers Baptists Witches Later 17th century**
Persecutions by puritans. See also 133.4 Witchcraft
.9 **Other persecutions**

273 Heresies
For the history of special doctrins see 230–239, Doctrinal theology
.1 **Gnostic First 3 centuries**
Reaction of pantheism and heathen philosofy on Christianity. See also 189.1 Gnostic philosofy; 186.4 Neo-Platonism; 239.4 Apologetics
.2 **Manichæism Parsee dualism 3d century**
Opposition of good and evil. Mystic. Ascetic. See also 149.3 Mysticism; 248 Asceticism; 289.8 Shakers, Mystics
.3 **Sabellian**
That the Trinity is not of persons, but of successiv manifestations. About 250 A. D. Held by Schleiermacher, Bushnell, Swedenborg
.4 **Arian Denying divinity of Christ 4th century**
.5 **Pelagian 5th century**
Denying original sin and supernatural grace
.6 **Antinomian 16th century**
Denying force of law, under Gospel dispensation
.7 **Molinist and Jansenist Pietists A. D. 1580–1700**
Port Royal. Augustine's doctrin of grace *vs* the Roman doctrin of good works
.8 **Agnostic**
Denying possibility of revelation. Holding that theology and the supernatural lie outside the domain of human knowledge. See also 149.7 Philosofy; 211 Atheism; 239 Apologetics
.9 **Minor heresies**

274–279 General religious history by countries
274–279 is divided geograficly like 940–999

280 Christian churches and sects
281–289.8 may be subdivided where needed like 940–999

281 Primitiv and Oriental churches
See also 270.1–270.3, Early religious history
.1 **Apostolic church, to time of great schism, A. D. 1054**
Works of apostolic and Christian fathers here; use 270 for religious history of these periods. See also 229.9 Apocryphal books
.2 Primitiv apostolic, to end of first century
.3 Ante-Nicene, A. D. 100–325 See also 270.1
.4 Post-Nicene, A. D. 325–1054 See also 270.2–.3
.5 **Oriental churches**
.6 Armenian
.7 Coptic
.8 Nestorian
.9 **Eastern or Greco-Russian or Holy orthodox church**
The great schism, mutual excommunication, A. D. 1054, separates the Catholic church into Eastern and Western churches, which from this time have separate histories

282 Western or Roman catholic church
Divided geograficly like 940–999

283 Anglican and American P. E. church
Divided geograficly, when needed, like 940–999; e. g. the Anglican church in Australia is 283.94; in India, 283.54

284 Continental protestant sects Protestantism
.1 **Lutheran Reformd**
German reformd church in U. S. See also 285.7 Reformd church in America
.2 **Calvinist Zwinglian** See 285, and 286.1
.3 **Hussites Anabaptists Leyden** See 286.1
.4 **Albigenses Waldenses Vaudois** See 272.3
.5 **Huguenots** See 272.4
.6 **Moravian**
.7 **Scandinavian Swedish**
.8 **Modern schisms in Catholic church**
.81 Old catholic
Here ar clast those denying papal infallibility, or for other cause cut off from Rome, tho catholic in other respects
.82 Gallican schismatics Constitutional church
.83 Little church of France
Those who do not recognize the concordat (anti-concordataires)
.84 Jansenists
See also 273.7 Jansenist heresy
.9 **Other**

285 Presbyterian Reformd Congregational
Next 2 subdivisions are sectarian, not geografic
.1 **Presbyterian church in America**
Subdivided geograficly; e. g. 285.173 Presbyterian church in United States 285.175 Southern presbyterian church
.2 **Presbyterian church in Great Britain**
.3 **Cumberland presbyterian**
.4 **United presbyterian**
.5 **Reformd presbyterian**
.6 **Minor presbyterian sects**
.7 **Reformd (Dutch) church in America** e. g. 285.77471, in N. Y. city
.8 Congregational
.9 Puritanism

286 Baptist Immersionist
.1 **Calvinistic or Regular**
Including Arminian or general baptists, reunited with Calvinistic in 1891
.2 **Free wil**
.3 **Seventh day**
.4 **Old school (Primitiv, Antimission or Hardshel)**
.5 **Other baptist sects**
May be clast if preferd with any of the larger sects which they most closely resemble or of which they ar offshoots
.6 **Disciples (Campbellite or Christian)**
.7 **Adventists**
.9 **Other immersionists**

287 Methodist
.1 **Wesleyan methodist**
.2 **Calvinistic methodist**
.3 **Welsh Calvinistic methodist**
.4 **Primitiv methodist**
.5 **Primitiv Wesleyan**
.6 **Methodist episcopal**
.7 **Methodist protestant**
.8 **African methodist**
.9 **Minor methodist sects**

288 Unitarian Socinian Antitrinitarian
See also 273.4

289 Other Christian sects
.1 **Universalist**
.2
.3 **Mormon**
.4 **New church or Swedenborgian**
.5 **Christian science**
.6 **Quaker Friends Hicksites**
.7 **Mennonite**
.8 **Shaker Mystic** For Mystic heresy see 273.2
.9 **Other Christian sects**

290 Nonchristian religions

Including comparativ religion and general histories of religion where an equal or minor place is given to Christianity

291 Religious topics of general nature Comparativ mythology
Subdivisions given below ar for general works on these topics. Material relating to a special religion should generally be clast with that religion

.1 **General ideas**
.12 Religious emotions
Awe, veneration, submission, confidence, love, etc. See also 157 Emotions, in psychology
.13 Comparativ mythology
The myth: its constituent elements, growth and changes in form
.14 Clasification of religions
Monotheistic, polytheistic, mystic, reveald, etc.
.15 Genealogic connection between religions
.16 Attitude of religions to each other Tolerance
.17 Relations between religion and science, art and morals
.2 **Religious doctrins Dogmas Theology**
.21 Divinities
Object of religion. Worship of various divinities. Special myths. Functions of gods. Worlds of gods and spirits. Latria
.211 **Animism, spiritism, fetishism, totemism, polydemonism**

291.212 **Naturism**
Adoration of the forces of nature and personified objects and phenomena
Nature myth
1 Mountains and rocks (litholatry)
2 Water (hydrolatry)
3 Plants and trees (dendrolatry)
4 Animals: dog, crocodile, serpent, birds (zoolatry)
5 Atmosferic fenomena: atmosfere, rain, clouds, winds, lightning, thunder etc. (meteorolatry)
6 Fire (pyrolatry)
7 Celestial bodies: sun, moon, stars etc. (astrolatry)
8 Sky and earth (ouranolatry and chthonism)
.213 **Worship of human beings (apotheosis)**
Demi-gods, heroes, saints, absolute monarchs
4 Worship of ancestors
Domestic worship, manes, lares, penates
5 Worship of the ded (necrolatry)
.214 **Gods**
Personified abstractions and divinities considerd as pure spirit
.215 **Hierarchy of gods**
Servants and messengers of divinity
.216 **Demons and evil spirits**
.217 **Strife among the gods and between gods and men**
.218 **Images of divinity Idolatry**
.35 Sacred places
Holy places, altars, temples, pagodas, churches, mosques, woods and groves, sacred grottos and streams, holy cities and villages
See also 725 Religious architecture
.6 **Religious organization Sacred persons Religious men**
.61 Representativs of divinity
Incarnation, priesthood, priests. Ministers of worship and other mediators. Recruiting of the clergy. Types of priests. Theocracy, hierarchy. Messiah. Kalif
.62 Men endowed with supernatural power
Thaumaturgists, sorcerers, magicians, exorcists, charlatans. Relation between priesthood and sorcery
.63 Divinely inspired men Profets
.64 Interpreters of divinity
Revelation of truth and of divine wil. Sacred writers. Religious law givers, founders of religions, religious reformers and apostles
.7 **Deeds inspired by religious motivs**
Religious wars, warlike or peaceful propagandism (see also 172.4 Peace and war, in ethics). Home and foren missions
.8 **Sources of religion**
Sacred books; oral traditions; ecclesiastic decisions

292 Greek and Roman religion and mythology

293 Teutonic and Northern religion and mythology

294 Brahmanism Buddhism
Also religions derived from them. For other Indic religions, see 299.11. See also 891.2 Sanskrit literature; 177.5 Caste
.1 **Vedic religion**
.2 **Prebuddhic Brahmanism**
.3 **Buddhism**
.31 Buddhism of the south
.32 Buddhism of the north Lamaism
.35 Jainism Sect of Jainas
.5 **Hinduism**
Changes introduced into Brahamism during and after struggle with Buddhism
.55 Various sects of Hinduism
.551 **Cakta sect Worship of the Caktis**
.552 **Brahmo Somaj sect**
.553 **Sikhism**
295 Parseeism Zoroastrianism Mazdaism Mithraism
For other Iranic religions, see 299.15. See also 891.52 Zend literature
296 Judaism For other Semitic religions, see 299.2
297 Mohammedanism
298
299 Other nonchristian religions
Subdivided ethnicly like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158

Social Sciences

300 Social sciences Sociology in general

301–309 all hav Sociology in general as their subject, but it is treated in these various forms. A periodical on Education is 370.5, not 305, which is only for periodicals on Sociology in general. In Sociology, most works in these forms ar limited to one division; e. g. to Political economy, Education, Law, etc. All these hav the same subdivision of General works; i. e. essays on the various divisions ar 310.4, 320.4, 330.4, and so on to essays on Manners and Customs in general, 390.4. A naught in any clas number shows the subject to be general, not specific

301 Sociology: philosofy, theories
See also 901 Philosofy of history; 320.1 Theory of state
302 Compends, outlines
303 Dictionaries, cyclopedias, etc.
304 Essays, lectures, addresses
305 Periodicals, magazines, reviews
306 Societies: transactions, reports
307 Education: teaching, study, etc. See also 370
308 Polygrafy: collected works, extracts, etc.
Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.
309 History of social science
.1 **Social surveys**
Divided like 940–999 and including general works on social conditions in special countries. May, if preferd, be clast in 914–919 or, if strongly historical, in 940–999. For general histories of civilization see 901

310 Statistics

311 Theory, methods Science of statistics
.01 **Purpose Use Value**
.2 **Methods, procedure, technic Preparation of statistics**
.21 General questions
Units of mesurement
.22 Collecting
.23 Analysis Testing Verifying
.24 Arrangement Clasification Tabulation
.25 Correlation
.26 Forms of presentation
Diagrams and cartograms; grafs; frequency tables; index numbers
.3 **Organization and direction of official statistics**
.39 By country
Subdivided like 930-999
.4 **Organization and direction of unofficial statistics**
312 Demografy Population (progress of)
Vital statistics: births, deths, mortality, longevity
See also 614.1 Registration and vital statistics
Statistics ar divided geograficly like 930-999; e. g. Population of Maine 312.741

313 Special topics

314-319 General statistics

Divided geograficly like 940–999

The statistics of any special matter ar put with the subject, e. g. of Domestic animals in 636, of Shorthand in 653, of French novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic ar divided by countries. Statistics of New York city would be 317.471, but the statistics of Medicin in New York would be put with 610 Medicin; i. e. the topic outranks the locality

320 Political science

.1 **Theory**
.11 Origin of the state
.12 Nation and territory
.121 Ethnografic
People of same race comprise the nation
.124 Geografic
Unity of territory
.126 Expansion Acquisition of territory
1 By discovery
3 " occupation and possession
5 " cession Annexation
7 " purchase or exchange
9 " conquest or revolution
.127 Alienation of territory
.128 Frontiers Boundaries
1 Natural boundaries
2 Mountains
4 Rivers
6 Lakes
8 Coast
9 Artificial boundaries
.15 Nature, entity, concept of the state
.151 Juridic theory
.152 Political theory
.153 Social and evolutionary theories
.154 The state as a moral organism
.157 Soverenty
See also 341 International law
.158 Allegiance Loyalty, etc. Patriotism
See also state ethics 172.1 Duties of citizens
.159 National growth and decay
.18 Symbolism, emblems: arms, flag, seal, etc.
Better clast in 929.8 and 929.9
.2 **Compends, statecraft**
.3 **Dictionaries**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**
.7 **Education**
.8 **Polygrafy**
.9 **History of political science,** divided like 930–999

321 Form of state

.01 **Simple state Soveren state**
.02 **Mixt state**
.021 Federal state Bundestaat Federation
.022 Confederation of states Staatenbund
Union of soveren states Alliance

321.023 Suzerain states
.025 Semisoveren, dependent and vassal states
.026 Mediatized state
.027 Protected state
Protectorates, spheres of influence
.028 Vassal states
.03 **Empire, imperialism**
.04 **World state**
.041 Internationalism
.07 **Ideal state Utopias**
See also 335 Communism and socialism
.09 **Change of form of state**
.092 Revolution
.094 Coups d'état
.1 **Family Patriarchal age**
.2 **Tribes Clans Marks Village communities**
See also 333.2 Community ownership of land
.3 **Feudalism**
.4 **Democracy** Pure; e. g. Athens, town meeting
.5 **Aristocracy** e. g. Italian republic; medieval German cities
.6 **Absolute monarchy**
.7 **Constitutional monarchy**
.8 **Republic** Modern democracy, delegated powers

322 Church and state

See also 172.3, State ethics; 261.7, The church
Political aspects of combination or separation of state and church affairs

323 Internal relations with groups and individuals

.1 **Movement and questions of nationalities, races and languages**
Divided by country like 930–999; e. g. struggle of nationalities in Austria 323.1436
For immigrant nationalities in a country see 325
.2 **Political struggles and troubles**
Revolutions, revolts; riots, uprisings. See also 321.09
.3 **The state and social groups**
Classes, orders, estates
.31 Nobility, aristocracy; welthy clas
.32 Middle clas, bourgeoisie
.33 Proletariat, laboring classes, pesantry
See also political economy, 331.8 Laboring classes
.34 Serfs Villenage See 326.3 Serfs and serfdom
.4 **The state and the individual**
Natural rights, individual rights, individualism
.41 Equality of individuals, races, etc.
.42 Equality before the law; justis, etc.
.43 Life
.44 Liberty
.441 Freedom of action
.442 " " conscience
.443 " " speech
.444 **Academic freedom** See 378.121 Freedom of teaching

323.445 Freedom of the press
See also Journalism 070.13; Administration 351.751
.446 Freedom of drama
.447 " " art
.45 Family
.46 Property
.47 Right of assembly, association
.48 Right of petition
.49 Limitation and suspension of individual rights and guaranties
.491 Martial law
.492 State of siege
.6 Citizenship
.61 Laws Divided by country like 930–999
.62 Naturalization
.63 Alien races and citizenship
.64 Loss and restoration of citizenship
.65 Duties and obligations of citizens
Scholar as citizen
.67 Rights of aliens
.68 Eligibility to offis

324 Suffrage Elections

.1 Qualifications, conditions and bases
For sex see 324.3 Woman suffrage
.11 Age
.13 Property
Household suffrage
.14 Education Competency Capacity
.15 Nationality Race Religion
.16 Residence, domicil
Length of residence
.162 Voting by soldiers
.164 " " students
.17 Exclusion from and suspension of suffrage
.171 Incompetency, incapacity
Insane, idiots See also 324.14
.172 Bankruptcy
.173 Pauperism
.174 Conviction of crime; bribery, selling vote
.177 Government servis
Military servis: soldiers and sailors
Civil servis, police offisers
.178 Other special classes
Students, domestic servants, etc.
.2 Forms of suffrage Systems Voting, etc.
.21 Electoral systems
.211 Universal suffrage
.212 Partial suffrage, limited
.213 Plural vote

324.214 Clas vote, clas system
.215 Compulsory voting
.216 Short ballot
Aiming to reduce number of electiv offises
.22 Constituencies and representation of interests
.221 Single member constituency
Scrutin d'arrondissement
.222 Multimember constituency
Scrutin de liste, block vote, general ticket
.223 Minority representation
Single vote, limited vote, cumulativ vote, proxy system
.224 Proportional representation
Preferential: alternativ, contingent, transferable vote. Quota: simple, Droop, d'Hondt, substitute or Gove method. Graduated system. List system. For second ballot see 324.248
.227 Economic and social groups
.23 Selection of candidates
Declaration and presentation of candidacy
.231 Nomination of candidate
.233 Party organization Conferences
.235 Caucus primary
.237 Direct "
.239 Platform
.24 Voting procedure
.241 Electoral lists: formation, revision
.242 Registration system
Poll lists and tally sheets
.243 Jurisdiction Examination of credentials
Appeal, petition
.244 Open voting
.245 Secret ballot
.246 Voting place
.247 Absent voting Voting by mail
Traveling salesmen, railway employees, mail clerks, etc.
.248 Second ballot
.249 Indirect voting Electoral college
.25 Ballot
.251 Unofficial
.252 Official
.253 Party ballots
.254 Blanket ballots
.255 Party colums
.256 Offis groups Australian ballot
.257
.258 Voting machines
.26 Results and announcements
Inspectors of election, meeting, etc.
261 Count of ballot
.262 Majority elects Absolute majority
.263 Plurality " Relativ majority
.268 Announcement of vote

324.27 Corruption Electoral fraud
.271 Bribery and undue influence: intimidation, selling votes
.272 Fraud in voting: personation, repeating, illegal voting, colonizing
.273 Election contributions and expenditures
Limitations on expenditures; publicity. Restriction on contributions; political assessments
.274
.275 Fraud in counting
Miscount of ballots; certification of false returns
.276
.277 Election contests
.28 Suffrage reform
.3 Woman suffrage
.4-.9 Suffrage by country
Divided like 940-999

325 Colonies Migration

.1 Immigrants See also 323.6 Citizenship
.2 Emigrants
Divided by country of origin like 930-999. This brings together material on emigrants of a special country or race; e. g. Chinese emigrants 325.251. Material on emigrants is usually most important in respect to country of origin, so is best clast in 325.2. Most libraries will have little except on immigrants to their own country, hence in United States 325.2 will relate almost wholly to specific nationalities in United States; e. g. 325.26 Negro question
.3 Colonization
Divided by mother country like 930-999; e. g. 325.342 British colonies. This brings together colonies planted by a special country, but does not specify location of colony
.4-.9 In special countries
Both immigration and colonization divided like 940-999, by country of settlement; e. g. 325.73 Foren population of United States; Americanization. See note to 325.2 for a given nationality

326 Slavery Serfdom Emancipation

See also 973.7 Civil war; 371.974 Education of freedmen
.1 Slave trade
.2 Coolies and contract slaves
.3 Serfs and serfdom
.4 Antislavery documents
.5 " periodicals
.6 " societies
.7 Proslavery
.8 Emancipation and freedom
.9 History of slavery Divided geograficly like 930-999
.92 Biografy of slaves

327 Foren relations

Divided geograficly like 930-999

328 Legislation Lawmaking Legislativ bodies

Legislativ annals
.1 Parliamentary law

328.2 Legislation
.21 Interpretation of law
.22 Uniform laws
Uniformity of law on same subject in different states or countries
.23 Codification
.24 Policy Tendencies
.241 Overlegislation
.243 Special legislation For private and local bills see 328.378
.25 Legislativ powers
.251 Juridic "
.252 Executiv "
.253 Implied "
.256 Restrictions and checks on legislation See also 328.349
.26 Direct legislation
.261 Initiativ
Voters by petition originate legislation
.264 Referendum
.27-.29 Subjects of legislativ action Divided like 351.7-351.9
.3 Legislatures

Summary

328.3 Legislatures
.31 Upper house
.32 Lower "
.33 Membership Election
.34 Prerogativs and powers
.35 Sessions
.36 Internal organization and disciplin
.37 Legislativ procedure
.39 Form of legislature

.31 Upper house
.32 Lower "
.33 Membership Election
.331 Conditions of membership, eligibility
Age, residence, property Membership without voting power
.332 Exofficio members
1 Cabinet and government offisers
2 Expresidents
3 Other exoffisers
4 Clergy, bishops
.333 Compensation
Annual salaries, per diem payment. Milage, traveling expenses. Special sessions. See also 328.347 Privileges
.334 Representation
1 **of states**
2 **territories**
3 **colonies and dependencies**
4 **classes**
Universities, landowners, Irish and Scotch peers
5 **election districts Apportionment**
Equalization of representation; unfair apportionment; 'rotten boros'; reapportionment
6 **Gerrymandering**
9 **Number of members**

328.335 Methods of appointment Election
1 **Appointment by government or crown**
For life or for a term
2 **Hereditary right**
3
4
5 **Election by direct vote: plurality or majority**
6 **Length of term**
Entire or partial renewal of membership; holdover member
7 **Vacancies, resignations**
Method of filling vacancies; special elections
8 **Contested elections**
.338 Official membership lists, directories
.339 Unofficial lists or directories
.34 Prerogativs and powers Restrictions
.341 Power over revenue and appropriation
.342 " to judge of elections
.343 " over members
Power to investigate or punish members
.344 Power of expulsion
.345 " over government offisers
Power of investigation for impeachment, see 351.96–.99
" to imprison citizens
.346 Treatymaking power
.347 Privileges
Franking privilege, postage and stationery: railroad passes; free distribution of books
.348 Immunities
From arrest
.349 Restriction
Offisholding Instructions by electors
Direct mandate See also 328.26 Direct legislation
.35 Sessions
.351 Method of summoning
Parliamentary writ
.352 Date of session
Fixt or movable
.353 Frequency of sessions
Annual, biennial, quadrennial
.354 Length of session Life of legislature
.355 Recess
.356 Adjournment Prorogation Dissolution
.357 Executiv session: procedure
.358 Special session Extra session

328.36 Internal organization and disciplin
Verification of powers, credentials
.361 Oath of offis
.362 Offisers: appointment, election
1 **Presiding offiser, speaker**
2 **President protem**
3 **Secretaries, clerks**
Bill clerk Enrolling, engrossing clerks
4 **Sergeant at arms**
5 **Pages, messengers, door keepers**
6 **Payment of employees: gratuities, fees, extra pay**
Unnecessary attendants
7 **Committees**
Standing, special, joint
8 **Special commissions**
For investigation, not administrativ commissions
.363 Records
.364 Supplies: daily papers, postage stamps
Telegraf and telefone bills
.365
.366 Disciplin: suspension, investigation
.367 Bribery Illegal practises
Graft bills, blackmail
.368 Lobbying
Including that by heds of depts and institutions
.37 Legislativ procedure
.371 Rules, manuals
See 08 under 328.4–.9 divided by country
.372 Petition, addresses
Parliamentary inquiries, commissions
Recommendations from executiv
.373 Bills
Technic: bill drafting, introduction
Printing, enrolling, engrossing
.374 **Action by legislature before passage**
1 Readings: 1st, 2d
2 Reference to committees
Committee work or procedure: investigation, hearings, conferences
3 3d reading
4 Contest over passage
5 Party caucuses, logrolling
.375 **Final passage**
Rules committee, 'lifting' committee, 'steering' committee
Vote: viva voce, by roll call; by ballot; obligation of voting in person, pairing
Required majority. Veto, see 353.03
Passing over veto. Bills left in hands of executiv: 30 day bills, pocket veto
Bills which become law without executiv action
.376 **Special bills**
Financial, omnibus riders
.377 Joint resolutions
.378 Local and private legislation
.379 Procedure in special cases
1 **Impeachment**

328.39 Form of legislature
.391 One chamber
.392 Two chambers
See also 328.31 Upper chamber; 328.32 Lower chamber
.393 Other forms
.394 Reform
.395 Abolition
.4–.9 Of special countries
Divided by countries like 940–999, and under each, works may be divided: 01 Jurnals, 02 Debates, 03 Abstracts, 04 Documents, 05 Rules, 08 Legislativ manuals, 09 History of bodies, but it is recommended that American libraries make an exception for U S and states of U S, by omitting 0 and using, for example, 328.739 History of U S congress, 328.7478 N Y State legislativ manual. For foren countries the 0 is in some cases needed (and it is therefore recommended for uniform use and to prevent possible future, if not present, conflict) because of otherwise conflicting numbers; e. g. unless 0 is used 328.469 might mean either a general work on lawmaking body of Portugal or a history of the lawmaking body of Spain

329 Political parties Party conventions

329.01 U. S. presidential campain documents of all parties, arranged by campains
.1 Federal
.2 Anti-Federal
.3 Democratic
.4 Whig
.5 American Knownothing
.6 Republican
.7
.8 Minor parties
.81 Prohibition, see also 178.5 Ethics; .82 Greenback, see also 332.5, Paper money; .83 Woman suffrage, see also 324.3 Woman suffrage; .84 People's; .85 Labor see also 331.8 Laboring classes
.9 Parties in other countries Divided geograficly like 940–999

330 Economics Political economy

SUMMARY

331 Labor and laborers Employers Capital
332 Banks Money Credit Interest
333 Land: ownership, rights and rent
334 Cooperation
335 Socialism and communism
336 Public finance Taxation
337 Duties Protection and free trade
338 Production Economic organization
339 Distribution and consumption of welth Pauperism

.1 Theory
.11 General conception Nature and caracter
Definition Limits and extent
.12 Clasification Divisions
.13 Importance Utility
.14 Language, terminology, simbols, abbreviations
.15 Scientific sistems
.151 Mercantil sistem
.152 Physiocrats
.153 Laissez faire
.154 Historic skool
.19 Relations to other classes
Divided like the Clasification
.1917 to ethics
.1932 " politics
.198 " literature
.2 Compends
.3 Dictionaries Cyclopedias
.4 Essays
.5 Periodicals
.58 Annuals Directories
.6 Societies, clubs, conferences
.61 Official institutions: government departments, bureaus
.62 Voluntary associations
Not under government control
.621 International
.624–.6299 By country
Divided like 940–999; e.g. Italian economic societies 330.6245
Societies of limited scope ar clast with their subjects, e. g. bankers associations 332.06
.63 Congresses, conferences, temporary organizations
.7 Study and teaching
.8 Polygrafy
.9 History
.90 By periods
.901 Primitiv –476 A. D.
.902 Medieval 476–1500 A. D.
.903 Modern 1501–1900 A. D.
.904 20th century
.92 Biografy
Preferably clast in 923.3
.93–.99 History divided by country like 930–999

331 Labor and laborers Employers Capital

SUMMARY

331.1 Relations of capital to labor
.2 Remuneration for work
.3 Labor of children
.4 " women
.5 Work under certain unfavorable conditions
.6 Pauper labor Cheap foren labor
.7 Different classes of workers Skild and unskild labor
.8 Laboring classes
.9 Other questions

.01 Theory
.011 Freedom of labor
.012
.013 Importance, utility, dignity of labor
.015 Psychology of labor
See 150 Psychology
.02 Compends
.03 Dictionaries
.04 Essays, addresses
.05 Periodicals
.058 Annuals Directories
.06 Societies, bureaus etc.
May, if needed, be further subdivided like 330.6
.07 Education Exhibitions
See also 371.426, 607, and education in special subjects
.08 Polygrafy
.09 History
.1 Relations of capital to labor
.11 Labor contracts in general Employment (i.e. engaging workers)
Agreements, recruitment, responsibilities
.112 Labor supply Agencies
For immigration see 325, for employment bureaus 331.11511
.113 Clasification of work and workers
1 Direct and indirect
2 Race adaptability
3 Age See also 331.3 Labor of children
4 Sex See also 331.4 Labor of women
55 Apprentis See also 331.55 Apprentis labor
59 Handicapt See also 331.59 Work of handicapt
6 Aliens See also 331.6 Cheap foren labor
.114 Equipment of workers
1 Personality Caracter
2 Natural ability
3 General education
4 Professional or teknical education
5 Experience
6 Tastes
7 Helth

331.115 Selecting workers
1 Securing applicants
11 Employment bureaus Agencies
For general labor supply agencies see 331.112
12 Advertizing
2 Applications
3 References
See also 331.123 Servis records, testimonials
4 Interviews
5 Caracter analisis
6 Tests
62 Mental tests
63 Trade tests
9 Other
.116 Engaging workers
2 Individual bargaining
3 Collectiv bargaining Representativ bargaining
.12 Department organization
.123 Servis records Testimonials
See also 331.1153 References
.124 Staf Grades Titles and duties
Material on positions more prominently provided for elsewhere is better clast under the other number; e.g. bookeepers 657
2 Offisers: executiv, director
Hed of enterprize
3 Staf: department, division and section heds
35 Understudies, deputies
4 Employees, routine workers
42 Bookkeepers
43 Clerks, stenografers, typists
44 Telefone operators, etc.
46 Pages, messengers, runners
47 Janitor force, laborers
48 Apprentises, volunteers
Not on payroll
49 Other
.125 Labor maintenance
2 Follow-up
3 Transfers
4 Promotions
5 Rating of worker
.126 Turnover
1 Causes
2 Calculations
9 Statistics

331.13 Termination of labor Unemployment Reemployment
.131 Causes Legitimate grounds
.132 Warnings
.133 Indemnities
.134 Cancelation of contracts
.135 **By employer**
2 Layoff
3 Discharge
.136 **By employee: quit**
See also 331.892 Strikes
.137 Unemployment
8 **By industry**
82–899 Divided like 620–699
For occupations not included in 620–699 use 331.13781 divided like main clasification
9 **By country** Divided like 930–999
.138 Reemployment
.14 Rules for workshop and offis employees Incentivs Disciplin
.141 Conversation
.142 Personal calls or work
.143 Soliciting money, subscriptions, contributions
.144 Respect and care for property (tools etc.)
.145 Personal appearance, dres, uniforms
.146 Curtesy Indifference
.147 Incentivs
See also 331.97 Encuragements to work, offerd by government etc.: medals, decorations, rewards to workers
2 **Suggestion sistems**
.148 Disciplin
2 **Fines**
3 **Stoppage of wages**
For general question see 331.212
6 **Stoppage of privileges**
.15 Labor relations within the plant
Prevention and peaceful settlement of differences. See also 331.89 Disagreements between capital and labor
.152 Cooperativ management Industrial democracy Representation in industry
2 **Joint board of control**
3 **Works council**
4 **Works committees Shop committees**
5 **Company unions**
.153 Conciliation
.154 Mediation
.155 Arbitration
.156 Joint conferences
.157 Trade agreements

331.16 Jurisdiction over work Industrial and professional tribunals
.17 Patronal institutions favoring the personnel
Clas here only general works, either on patronal institutions as a whole, or on such institutions as a whole of the same establishment. Clas publications on an individual patronal institution in the number for such institution
.171 Funds for pensions and for aid in general
.178 By industry
2–99 Divided like 620–699
For occupations not included in 620–699 use 331.1781 divided like main clasification
.179 By country Divided like 930–999
.2 Remuneration for work
Wages, hire, pay, salary, fees
.21 General
.211 Payment of wages Mode (e.g. cash or check), place, time, payrolls, paybooks
.212 Stoppage, deduction, withholding
See also disciplin 331.1483
.213 Preferd claims for wages due
.214 Economic theory of wages
1 **Statistical theory**
2 **Wage fund**
.215 Fixing wage rates Minimum and maximum
3 **Relation of wages to production**
4 **" " " " cost of living Living wage**
See also 331.831 Cost of living
5 **Minimum and maximum wage**
.22 Wage scales: scale contracts, sliding scale
.225 Extra pay
Extra wages, efficiency bonus, subsidies, bounties; progressiv wage. For deductions, stoppage, fines, etc. see 331.212 and 331.1482–.1483
.23 Bases of wages and kinds of payment
.231 By work done
Job, task, piece. For farming out, sweting sistem, see 331.236
.232 By time: hour, day, week, month, year
.235 Kinds of payment
Truck sistem, store orders, shares, payment in kind
.236 Intervention of middleman
Subcontract, sweting sistem, commissions
.238 Payment by other than employer: fees, tips, etc.
.24 Profitsharing
See also 631.114 Share sistems in farming

331.25 Pensions Insurance Benefit agencies
See also 368 Insurance
.252 Pensions
.253 Group insurance
See also 331.8251 Employer's liability
.254 Individual insurance
3 **Life insurance**
4 **Social insurance** **Workmen's insurance**
41 Accidents
See also 331.823 Labor accidents
42 Sickness
43 Old age Invalidity
44 Involuntary unemployment
See also 331.137 Unemployment
.26 State and wages
.261 Legislation Laws
.262 Wages for state labor
.27 Professional remuneration
.28 Wages divided by industry
.282–.2899 Divided like 620–699
.29 Wages divided by country like 930-999
.3 **Labor of children** See also 179.2 Cruelty to children
.4 **Labor of women** See also 396.5 Woman
.41 Night work
.43 Work of married women
.435 Work of women with child
.44 Work of young women
.5 **Work under certain unfavorable conditions**
Reduced wages, compulsory labor
.51 Prisons Convict labor
See also 365 Prisons
.52
.53 Convents Ouvroirs (workshops)
Ouvroirs ar charity workshops paying beneficiaries nominal wages and marketing products at prices so small as to lower wages of selfsupporting workers
.54 Contract labor
See also 331.625 Coolies
.55 Apprentis labor
See also 331.861 Apprentisship
.56 Peonage Serfs
See also 326.3 Serfs and serfdom
.57 Compulsory labor Corvée
.58 Slave labor
See also 326 Slavery
.59 Handicapt

331.6 **Pauper labor** **Cheap foren labor**
See also 339.1 Pauperism; 362.51 Asylums
.61 Aid by furnishing work National workshops
See also 331.92 Right to work
.62 Foren workers Competition of foren labor Protection of nativ labor
.625 Manual Asiatic labor Coolies
See also 326.2 Coolies and contract slaves
.65 Abuse of volunteer servis, supernumerary time or servis, plurality of offises
See also 331.814 Overtime
.7 **Different classes of workers** **Skild and unskild labor**
Work and workers according to the different occupations and objects of work. Working conditions and economic situation
.709 In special countries
Divided like 930–999
.71 Intellectual or mental work
.713 Liberal professions
Clas work on a special profession in 331.76
.714 Artistic workers
Those whose work is not regarded as belonging to the fine arts (see clas 700) but which is artistic in its caracter
.76 In special industries
.762–.7699 Divided like 620–699
For occupations not included in 620–699 uze 331.761 divided like main clasification
.77 Employees
Clas here material too general to go in a more specific number
.79 Other workers
.794 Home workers Artisans
See also 331.236 Sweting sistem
.795 Public servis employees: country, state, city Employees of public servis contractors
See also 331.262 Wages for state labor
.798 Unskild workers
.8 **Laboring classes**
.81 Duration of work Rest
.811 Length of day
8-hour day, 10-hour day, etc. Shifts of work
.812 Night work
See also 331.41 Night work of women
.813 Sunday work
.814 Overtime Supplementary hours
See also 331.65 Abuse of supernumerary time
.815
.816 Vacation Leav of absence
.817 Holidays
Weekly rest, Sundays, labor festivals, May 1, festivals of patron saints
.818 In special industries
2–99 Divided like 620–699
For occupations not included in 620–699 uze 331.8181 divided like main clasification
.819 In special countries Divided like 930-999

331.82 Working conditions Places of labor
See also 613.6 Hygiene; 622.8 Mining; 614.8 Protection of life
.821 Dangerous, uncomfortable, unhelthful quarters
.822 Industrial hygiene Medical supervision Prevention of occupational diseases
See also 331.827 Improvement of working conditions in factories, stores, offises etc.
2 **Physical examination**
3 **Prevention of occupational diseases**
4 **Hospitals**
5 **Nursing**
7 **Surgical aid**
71 First aid Better clast in 614.8
76 Dental work
.823 Safety Accidents Occupational hazards
See also 331.25441 Accident insurance; 614.8 Protection of human life from accidents
01 Causes of accidents
02 Safety committees
1 **Preventiv and protectiv safety mesures**
Better clast in 614.8
12 Education: lectures, moving pictures
15 Safety devices and appliances
2 **Responsibility for accidents**
3 **Legal reparation for accidents**
See also 331.825 Employer's liability; reparation
4 **Aid by public or private charity or workers associations**
Better clast in 361–362
5 **Fires**
501 Causes
51 Preventiv and protectiv mesures
52 Education: lectures, moving pictures
53 Organization
54 Drils Contests
.824
.825 Employer's liability Reparation
2 **Employer's liability**
See also 331.253 Group insurance
5 **Workmen's compensation**
.826
.827 Improvement of working conditions in factories, stores, offises etc.
2 **Sanitation**
Baths, lavatories, toilet rooms
3 Lighting
4 Heating
5 Ventilating
6 **Comfort**
Coat rooms, rest rooms, lunch rooms, cafeterias
7 **Morality Separation of the sexes**

331.83 Material needs
Shelter, food, clothes. See also 640 Home economics
.831 Cost of living
2 **Working men's budgets**
See also 331.2154 Relation of wages to cost of living; 647.1 Household accounts
.832 Cooperativ stores
See also 334.5 Cooperativ consumptiv associations; stores
.833 Dwellings Lodgings
See also domestic economy 643 Shelter: house, home
.834 Food
See also domestic economy 641 Food, cookery
.835 **Restaurants Cafeterias**
See also cooperation 334.4 Cooperativ housekeeping; domestic economy 647.95 Cooperativ and collectiv housekeeping
.836 Clothing
See also domestic economy 646 Clothing, toilet
.84 Morals and habits: thrift, temperance, amusements, temptations
See also 170 Ethics; 790 Amusements; 263.6 Sunday; 613.75 Parks
.85 Intellectual life Education
See also 374.5 Home education; 020 Libraries; 263.7 Sunday
.852 Social settlements
.853 Libraries Reading rooms
.855 Lectures
.858 Continuation skools
.86 Industrial education Training
For general industrial training see 607
.861 Apprentisship
.862 Factory skools Vestibule skools Corporation skools
.863 Journeyman's servis
.864 Cooperativ education
.865 Skolarships
2 **For study**
4 **" travel**
.866 Study abroad
.867 Industrial nationalization (Americanization etc.)
For skools for foren born see 371.98

331.87 Organization of labor
.88 Trade unions and other labor societies
See also 338.6 Gilds
.8808 Special questions relating to trade unions
Union labels
9 By country Divided like 930–999
.881 By classes of workers
2– Divided like 620–699
For occupations not included in 620–699 use 331.8811 divided like main clasification
.882 Unions of managers
.883 Mixt unions of managers and workers
.886 Revolutionary unions
1 **Sindicalism**
3 **Bolshevism**
6 **I W W**
.888 Unions of women workers
.889 Compulsory unions
Open vs closed shop
.89 Disagreements between capital and labor Strikes
Combinations of workmen. Retaliation by employers. For prevention of outbreaks see 331.15
.891 Attacks on freedom of work
Picketing; methods of intimidation; scabs
.892 Strikes
01 Causes
1 **Union strikes**
2 **Simpathetic strikes**
3 **Unorganized strikes**
4 **By industry**
82–89 Divided like 620–699
9 **By country** Divided like 940–999
.893 Other methods of workmen
1 **Violent**
Sabotage
2 **Mild**
3 Boycotting
6 Unfair list
7 Fair list
.894 Methods of employers
1 **Blacklisting** **Laying under interdict**
3 **Whitelisting**
.895 **Lockouts**
.9 Other questions
.91 International regulation of labor
.92 The right to work
.97 Encuragements to work
Offerd by general government or general societies. Medals, decorations, rewards
.99 Intervention of public powers in general
Freedom and regulation of work; protection of workers; credit and contributions to workers and workers associations
.991 Transport of workers Workmen's trains

332 Financial economics

.1 Banks and banking See also 334.2 Cooperativ banks
.11 National Federal reserv
.12 State
.13 Private
.14 Trust companies
.15 Foren
.2 Savings banks
See also 383.3 Banking by mail
See also 334.7 Friendly societies; 362.62 Pensions; 368 Insurance
.21 Official savings institutions: national, state, municipal
.22 Postal savings banks Express savings banks Railway savings banks
.23 School savings banks
.25 Management of savings bank funds
Use, investment
.28 Free savings institutions
.3 Loan institutes and special loans
.31 Credit institutes
.311 **Agricultural banks and credits** See also 631.16
.312 **Manufacturers credits**
.313 **Loans on chattel mortgages**
.314 " " **salaries**
.315 " " **wages**
.32 Bilding associations See 334.1 Cooperation
.33 Monts de piété Governmental
.34 Pawn shops Private
.4 Money Coins and coinage
.41 Coinage metals: production and value: gold, silver, nickel, copper
.42 Single and double standard
.43 International standards
.44 Monetary congresses
.45 Comparativ value of moneys
.46 Mints
.47 Coinage laws
.49 In special countries Divided geograficly like 940–999
History, reports and laws
.5 Fiduciary money Paper money Public and private notes See also 329.82
.55 Mediums of exchange other than money
.6 Financial markets Stocks and stock exchanges Bonds
.61 Stock exchanges
.615 **Authentic, official stock quotations**
.62 Stock brokers Stock jobbers
.63 Transferable securities
Negotiable documents, shares, bonds: of joint stock companies and shares in general from an economic and financial viewpoint
Whatever relates to stocks and bonds of a special company is clast with that company in 332.06

332.64 Operations on exchange
Speculation in general; dealing on account; dealing with option; stock jobbing
.65 Arbitration of exchange View of parities
.66 Public issue of transferable securities
.7 **Credit Credit system**
.71 Agricultural credit
.72 Landed or territorial credit Credit Foncier
.73 Popular credit Loans without interest
.74 Maritime credit
.76 Checks Clearings
.77 Bills Bills of exchange Notes on demand Orders for payment
.78 Clearing house
.8 **Interest and usury** See also 336.31 Public securities
.9 **Counterfiting Forging** See 343 Criminal law

333 Land: ownership, rights, and rent

Conservation of natural resources
For other relations see Land in Relativ index following Tables
.09 Special countries, divided like 930–999
.1 **State ownership**
.2 **Community ownership** See also 321.2 Village communities
.3 **Private ownership**
.4 Absentee owners Alien owners
.5 **Rent of land for cultivation** Clas here general works on rent
.6 **Rent of land for bilding**
.7 **Special classes of land: forests, pasture, waste**
.8 Mines
.9 **Water rights: litoral, riparian, irrigation**

334 Cooperation

Works on cooperation applied to other subjects ar generally better clast with those subjects, but may be kept together here by using after 334 a colon and number for the other subject; e. g, Cooperation in agriculture 334:63, in business 334:658 (For fuller note see under 150)
.01 Theory .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Study, training .08 Polygrafy
.09 History and local treatment, divided like 930–999
.1 **Bilding societies: loans, organization** See also 332.32
.2 **Cooperativ banks** See also 332 Banks
.3 " **insurance societies** See also 368 Insurance
.4 " **housekeeping** See also 647.93 Domestic economy
.5 " **consumptiv associations Stores**
.6 " **productiv associations Factories**
.7 **Friendly societies**
.8 **Burial societies**

335 Socialism and communism

See also 334 Cooperation
.01 Theory of property
.1 **English socialism**
.2 **Saint Simonism**
.3 **Fourierism**
.4 **Communism**
.5 **German socialism Social democracy**
.6 **State socialism Socialism of the chair**
Professorial socialism
.7 **Christian socialism**
.8
.9 **Socialist communities**
Divided by countries like 930–999

336 Public finance

Federal and state. For local finances see 352.1
.1 **State domain and properties**
.11 Management and income from rents
.12 Sale
.13 Land claims
.14 Land grants to railroads, colleges, etc.
See also 379.123 Education
.19 State monopolies
e. g. French state monopoly of tobacco trade. See also 338.8 Monopolies
.2 **Taxation**
.21 Direct
.22 Real estate
.23 Personal property
.24 Income
.25 Poll
.26 Customs: specific or ad valorem
Regulations. Schedules of duties. See also 337 Protection
.27 Excise, licenses, special taxes
Liquor, dog, legacies, stamp duties
For other relations see License in Relativ index following Tables
.28 Local taxes See also 379.13 School funds
.29 Assessment and collection of taxes Exemptions
.3 **Loans Public securities**
.31 Interest-bearing securities See also 332.8 Interest
.32 Floating det
.33 Sinking fund
.34 Public credit
.35 Annuities
.36 Repudiation
.4–.9 **Finance of special countries** Divided geograficly like 940–999

337 Duties Protection and free trade
See also 336.26 Customs
.1 Absolute free trade No tarif
.2 Free trade: i. e. tarif for revenue only
.3 Protection
Clas in 337.2 discussions or histories which ar arguments for free trade. When doutful prefer 337.3, the general number for discussions
.4 Subsidies
.5 Duties on special articles: steel, wool, etc.
.6 " " raw materials
.7 " " books and works of art
.8 Duty free importation for colleges, etc.
See also 021.861 Libraries
.9 Reciprocity

338 Production Economic organization and condition
.1 Agricultural products
.2 Mining products See also 332.41 Coinage metals
.3 Water " Fish, ice, etc.
.4 Manufactured products Machinery in industry
.5 Prices
.6 Gilds See also 331.88 Trades unions
.7 Corporate industries
.8 Monopolies Trusts See also 336.19 State monopolies
.9 Industrial legislation Divided geograficly like 940–999

339 Distribution and consumption of welth Pauperism
Conservation; restrictions on use or waste of materials, including general works covering natural resources
See also Pauper, Pauperism, Welth, in Relativ index following Tables
.1 Comfort and poverty
Pauperism, its causes and remedies; life and condition of poor
See also 362.5 Aid to poor
.2 Division of welth
Modes and principles of division or distribution of welth. Riches and incomes; interest, salaries and profits in general. Net proceeds; gross proceeds
.3 Appraisement of welth Capital and income
.4 Consumption Use of welth
Luxury; sumptuary laws. Idleness, dissipation, prodigality. Avaris. Protection of consumers. Economy, thrift
.49 Conservation
Divided like 930–999

340 Law
General works Most periodicals belong in Private law, 347.05
.1 Philosofy Theories Law of nature
.3 Antiquities: torture, trial by ordeal, duel, etc.
.4 Trial by jury
.5 Comparativ legislation
.6 Medical jurisprudence See also 614.23 Expert testimony
.7 Education Law school Offis training
.8 Polygrafy Collections
.9 Legal anecdotes and miscellany

Public law

341 International law
.01 Philosofy; .02 Compends, etc. like 300
.1 International congresses
Of diplomatic agents for settling international relations; Hague tribunal, Leag of Nations. Congresses on special topics go with their subjects; e. g. 332.44 on Coinage
.2 Treaties: texts and history
Clas with most important country, dividing like 940–999
.3 Law of war Captivs Neutrals
.4 International criminal law
.5 International private law
.6 Arbitration
.7 Diplomacy
.8 Consular systems

342 Constitutional law and history
Divided by countries like 930–999. Under each, works may be divided: 01 Texts of constitution; 02 Conventions; 03 Systems, commentaries; 04 Essays; 08 Polygrafy; 09 History, but it is recommended that American libraries make an exception for U. S. by omitting 0, using, for example, for commentary on U. S. constitution 342.733
For Administrativ law, see 350

343 Criminal law
.1 Criminal trials
.2 Punishments
Corporal. Deth penalty. Hard labor. Confinement
.3–.9 Of special countries Divided by countries like 930–999
Under each country, works may be divided: 01 Penal codes; 02 Reports; 03 Criminal procedure; 04 Text books and manuals. For exception recommended for American libraries see note under 342

344 Martial law

Private law

345 United States statutes and cases
Divide each of the sections .1–.5, using 1 U. S.; 2 Individual states arranged alfabeticly; e. g. Statutes at large of U. S. 345.11; Acts and resolvs of Mass. 345.12
.1 Session laws

345.2 **Codes** **Revised statutes**
.3 **Law digests (of statutes)**
.4 **Reports**
Use .4 U. S. supreme court; .41 U. S. circuit and district courts; .415 Periodical collections of various states; e. g. Eastern Reporter, etc; .42 Reports of individual states
.5 **Digests of cases**

346 British statutes and cases

Divided like 345. Includes all reports in English language except U. S. reports

347 Treatises American and English private law

.01 Philosofy .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies, bar associations .08 Polygrafy .09 History
Put law of special topics with subject; e. g. Insurance law, 368. Divisions .1–.8 may be disregarded and all English law textbooks arranged in one alfabet by authors. An elaborate division, similar to Medicin, wil be publisht after further revision

.1 **Persons** **Legal capacity**
.2 **Realty**
.3 **Chattels** **Movables**
.4 **Contracts**
.5 **Torts**
.6 **Family law and inheritance**
.7 **Commercial and maritime**
.8 **Equity**
.9 **Civil trials** **Procedure**
.91 Civil trials
.92 Pleading
.93 Forms
.94 Evidence **Testimony in general not limited to civil trials**
.95 Remedies
.96 Justises of the peace Notaries Sheriff
.97 Organization of courts
.98 Jurisdictions
.99 History of special courts

348 Church law

349 Law other than American and British

Divided like 930–999, and under each modern state divided after a o like 345 with 071–079 used for Treatises like 347; e. g. 349.44075 is French law of torts, 349.4402 is French code; or, if preferd, 347 may be used to include treatises on law in any country and 071–079 be disregarded after country subdivisions of 349. Roman law is divided:

.37 Roman law
.01 Philosofy .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Education .08 Polygrafy .09 History
.371 Sources: Ante-Justinian
.372 " Justinian
.373 History and criticism of sources
.374 Institutes: ancient Roman law
.375 Pandects: modern " "
.377 Treatises on special topics **Divided like 347**

350 Administration

Including Military science. .1 Theory; .2 Compends; .3 Dictionaries; .4 Essays; .5 Periodicals; .6 Societies; .7 Education; .8 Polygrafy; .9 History
A large number of the questions properly placed under Administration ar clast with related topics elsewhere. Some of these ar repeated here, both to show the scope of the subject 'Administration' and to provide for cross references by those specially interested. See also 342 Constitutional law and history

351 Administration of central government

.1 **Organization of civil servis**
Offisers Method of selection: election or appointment Official functions and powers Mutual relations
.2 **Civil lists**
.3 **Examination**
.4 **Tenure of offis** **Disciplin** See 351.92 Power of removal
.5 **Pensions**
.6 **Reform** **Spoils system vs offisholding clas**
.7 **Subjects of administrativ action**
See also 353 United States; 354 Countries other than United States
.71 Financial administration
See 336 Public finance, public property, taxation
.72 Budget Public accounts
.73 Internal affairs See also 323 Domestic relations
.74 Police mesures
.75 **Public safety and order** See also 352.2 Police; 365 Prisons, etc.
.751 Press
.752 Reunion and association
.753 Wepons
.76 **Vice and good manners**
.761 Liquor regulation See 178 Temperance
.762 Public gaming See 174.6 Ethics
.763 Public begging See 339.1 Pauperism
.764 Prostitution See 176.5 Ethics
.77 **Sanitary police**
See 352.4 Boards of helth; 614 Public helth, etc.
.78 **Accidents** See 614.8 Public helth
.781 Bildings See 614.85
.782 Fires See 614.84
.8 Promotion of public welfare
.81 **Means of communication**
See 380 Commerce, communication
.811 Highways See 388; 352.7 Local government
.812 Railways See 385
.813 Waterways See 386; 387
.814 Ferries
.815 Bridges See 352.7 Local government
.816 Postoffis See 383
.817 Telegrafs See 384.1

351.82 **Trade and industry**
.821 Weights and mesures See 389 Commerce
.822 Coinage and money See 332 Banks, money
.823 Landed industry
Agriculture See 630 Useful arts; 338.1 Production
Forests See 634.9 Forestry; 333.7 Land
Mines See 622 Mining; 338.2 Production; 333.8 Land
.824 Commercial and manufacturing industry
See 380 Commerce; 338 Production
.825 Institutions of credit See 332 Banks, credit
Savings banks See 332.2
Mutual benefit societies See 334 Cooperation
Insurance See 368; 334.3 Cooperativ insurance
Monts de piété See 332.33
.83 **Labor** See 331 Capital, Labor, Wages
.84 **Public charity**
See 339.1 Pauperism; 360 Associations and institutions
.85 **Education and worship**
.851 Public education See 379 Education
.852 Public libraries See 027.4 Library economy
.853 Art museums See 708 Art
.857 Worship See 322 Church and state
Military and naval See 355–359 Army and Navy
Justis See 340 Law
Foren affairs See 341 International law; 327 Political science
.9 **Control over the administration**
.91 Administrativ control By superior offisers
.92 Disciplinary power
Power of removal. See also 351.4 Tenure of offis
.93 Supervision
Power to annul or amend specific acts
.94 Judicial control
.941 **Ordinary courts** See 347.5 Law of torts
.945 **Criminal courts** See 343 Criminal law
.95 Administrativ courts
.96 Parliamentary control
.97 Petitions and addresses
.98 Investigations
.99 Impeachment

352 Local government: county, town, city

See also 379 Public schools; 020 Libraries

General questions of municipal administration

.001 Growth and importance of cities
.002 Cities and state control
.003 City as a juristic person, a corporation
See also 347.1 Law of corporations
.004 City organization, municipal elections
.005 Municipal civil servis
.008 Forms of administration
Commission, manager etc.

Local administration of special countries and cities

.03–.09 divided by countries like 930–999

352 042 **Local government in England**
Arrange matter relating to special cities alfabeticly by name of city and subdivide the remaining works as follows:
01 County
02 Municipal boro
03 Parish
04 Union See 339.1 Pauperism
05 Sanitary districts See 614 Public helth
06 School districts See 379 Education
07 Highway areas See 352.7
.043 **Local government in Germany** Special cities like 352.042
01 Province: landtag, provincial committee, director
02
03 Circle Circle diet Circle committee Landrat
04 Commune
05 Towns
06 Township
.044 **Local government in France** Special cities like 352.042
01 Department
02 General council
03 Departmental commission
04 Prefect
05 Arrondissement
06 Commune
07 Mayor
08 Municipal council
.1 **Finances: city property and local taxation**
See also 336 Public finance
.2 **Police**
.3 **Fire department** See also 621.68 Fire engins; 614.84 Fires
.4 **Public helth: board of helth** See also 614 Medicin
.5 **Public bildings and works**
.6 Water and sewerage works See also 628 Sanitary engineering
.7 Streets Highways Bridges Parks
See also these topics in Relativ index for other relations
.8 **Licenses: hack, huckster, entertainment, etc.**
.9 **Other topics**

353 United States and state government

Operation of government, except legislativ branch. For U. S. congress and state legislatures see 328.73–.798, where also ar department reports in sets of congressional and state documents. Clas separates of such reports with their subjects or with their respectiv departments in 353.1–.97988 when they hav no definit place elsewhere in the clasification; but report of bureau of education 379.73, of agriculture dep't 630.6
See also 342.73 Constitutional law and history
.01 Administrativ centralization
.02 Separation of powers
.03 President
.04 Departments
.05 Cabinet
.1 **State department**
.2 **Tresury department**
Laws and rules governing tresury; but clas reports 336.73 U. S. finance
.3 **Interior department**
.4 **Postoffis department** See postal servis 383.4973

353.5 **Judiciary department**

.6 **War department**

See also 355 Army; military science

.7 **Navy department**

See also 359 Navy; naval science

.8 **Other departments**

.9 **State government** Divided like 974-979

Apply same decimals for state governments. For departments not here specified use .8 and .9 and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dep't of D. C. 353.97535. 353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476

354 Organization of central government Countries other than United States

See also 342 Constitutional law and history

Divided geograficly by countries like 930–999. Under each country (except where existing country divisions conflict; e. g. 943 Germany, 943.6 Austria) the U. S. divisions, 1 State, 2 Tresury, etc. may be used; e. g. State department of Great Britain, 354.421; or, for sake of uniformity and because of possible future division of countries (and this is advized for libraries which hav not alredy added the department numbers directly to the country number) these numbers may be added to 06 affixt to country number (see Germany below); e. g. 061 State department, etc. But do not use these divisions where a single number is at present used for 2 or more countries (e. g. 989 Paraguay, Uruguay) and for which more specific provision wil eventually be made. Ad also the following divisions:

.42 Administration of England Central government
- 01 Administrativ centralization
- 02 Separation of powers
- 03 Monarch
- 04 Privy council
- 05 Cabinet

.43 Administration of Germany Central government
- 01 Administrativ centralization
- 02 Separation of powers
- 03 Empire
- 032 Bundesrat
- 033 Emperor
- 034 Ministry
- 04 Republic
- 06 Departments
  - Divided like 353; e. g. 354.43062 Tresury department of Germany
- 07 States Monarchs
- 072 Landtag Ministers Council of state
- 08 Free cities

.44 Administration of France Central government
- 01 Administrativ centralization
- 02 Separation of powers
- 03 President
- 04 Ministers
- 05 Council of state

355 Military science

Military in broad sense of land and sea forces; but limited to military science, tactics, etc. For War department of U. S. see 353.6; for history of regiments see 353.9 and subdivision 4 under special wars in 973; e. g. Mexican war being 973.62, regimental history of that war is 973.624. See also 623 Military engineering
.01 Theory .02 Compends .03 Dictionaries .04 Essays .05 Periodicals
.06 Societies .07 Education .08 Polygrafy .09 History

.1 **Military life** Including honor, honors and insignia, and standards

.11 Servis periods and retirement

.114 Termination of servis Resulting status

355.12 Military iife in peace and war

.13 Military honor Disciplin

Professional morality; rewards

.14 Uniforms

System; distinguishing rank; style, color and esthetic considerations
See also 355.81 Clothing of troops

.15 Colors and standards

.16 Military celebrations

Commemorations, anniversaries, jubilees

.2 **Military resources**

.21 Preparedness

Rediness of resources for mobilization

.22 Men Recruitment

Voluntary and compulsory enlistment; recruits from military schools. Obligations of citizens with respect to national defense
For relations of government to maintenance of public order see 351.74 Government police mesures

.23

.24 Raw material

Agricultural, mineral, etc.

.25

.26 Manufactures, industries

.27 Transportation

Roads, railroads, canals, ships

.3 **Organization of military forces**

.31 Army units and organization

For special arms see 356 Infantry, 357 Cavalry, 358 Artillery. For clasification according to military obligation and field of servis see 355.35

.33 Offisers Military hierarchy

.331 Command in general

General principles and rules of command, whether of large or small units

.34 Special servis

Outside the regular arm or grade

.35 Armies General staff

Armies clast according to military obligation and field of servis; e. g. European armies of first line, 2d line, colonial armies
For military units see 355.31

.4 **Tactics and strategy**

.41 Logistics and field servis

.42 General tactics

See each arm for its peculiar tactics

.43 Strategy

.44 Siege warfare

For siege engineering see 623.2

.45 National defense

.47 Military geografy

Divided like 930–999
Geografic works from military point of view and works on strategic conditions of theaters of operations

.48 Wars, campains, battles, military exploits

Better clast with wars to which they belong in 930–999

355.5 **Servis**
Garrison and field servis, mobilization; instruction of troops and subaltern grades; maneuvers
.52 Grand maneuvers Instruction camps
.6 **Military administration**
Clas here only what concerns the workings of administrativ servises. For personnel and organization of these servises see 356.3
.7 **Military establishments**
Organization and servis
See also 359 Naval establishments
623.63 Military establishments (military engineering)
725.12 Architecture of military bildings
.8 **Military equipment and supplies**
.81 Clothing Camp outfit
.82 Small arms and ammunition
Administrativ questions: working and reserv supply; storage, issue, etc. For mechanism and relativ efficiency of different kinds see 623.4
.83 Wagons Harness Transport outfit
.84 Pioneering tools
.85 Other tools Instruments

356 Infantry
.1 **Organization**
Light infantry, mounted infantry, cyclist infantry
.12 Special colonial infantry
.13 Organizations eventually subject to mobilization
.14 Volunteer corps
.15 Irregular troops
'Corps francs' existing only during war
.16 Special infantry troops
Sharpshooters, etc.
.2 **Staff and special servises**
.3 **Administrativ staff and servises**
Personnel and organization

357 Cavalry Mounted servises
.1 **Cavalry proper**
.2 **Remount and training servises**
.3 **Army train**

358 Artillery, engineers and other technical servises
For ordnance, gunnery, etc. see 623 Military engineering
.1 **Artillery**
.2 **Engineers**
.3 **Other technical servises**

359 Naval science
Divided by .01–.09 like 355. See also 623.8 Naval architecture

360 Welfare and social associations and institutions

This covers what is best known as "Charities and corrections," and general works on this topic go in 360. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London ar 367.9421
Clas under 360 all which concerns welfare work, insurance, and associations having a social caracter and not devoted to some special field. Those devoted to some special field (religious, commercial, scientific, art, sporting, literary etc.) ar clast under their own subject divisions. See also 060 General societies; 334 Cooperativ societies

361 Charitable
See also 377.7 Charity schools. For humane societies see 179.2
.01 **Principles of welfare work**
Responsibility, charity, philanthropy, mutual aid
.1 **Medical aid in general**
Medicin for poor; free medicin; medical and pharamceutic aid
See also 362.1 Hospitals for sick and wounded
.2 **Aid according to place where given**
In country or city, at home or in institutions
.3 **Aid according to person resieving**
See also 362
.4 **Aid according to kind**
Funeral expenses
.5 **Certain exceptional cases**
Calamities, disasters, plagues
.51 Earthquakes
.52 Floods
.53 War
.54 Epidemics
.55 Famine
.56 Fire
.6 **Official or public aid in general**
.7 **Private aid in general**
.73 Contributions Charity entertainments
.8 **Charity organization**
United work; cooperation and association of charitable works: charity information bureaus

362 Hospitals, asylums, and allied societies
.01 **Discussions of purpose, nature and caracter**
.1 **Sick and wounded**
See also 361.1 Medical aid in general
.11 General hospitals Contagious wards, pesthouses
Infirmaries
Treatment at hospitals
.12 Dispensaries
.13 Sanitariums and bath establishments
Special sanitariums: for incurables, cancer patients, lepers, epileptics, consumptivs, inebriates. Sanitariums at high altitudes. Baths and watercures. Establishments for sea baths

362.14 Medical cases treated at home
.145 **Distribution of medicins**
.15 Maternity hospitals
Institutions for women in confinement and for infants
See also 362.72 Institutions for foundlings
.16 Convalescents
.18 Wounded and disabled City ambulances
See also 614.88 Life saving
.2 **Insane**
For other relations see Insane, Insanity in Relativ index following Tables
.3 **Idiotic Imbeciles Feebleminded**
For other relations see Idiocy, Idiots, in Relativ index
.4 **Blind Def Dum**
See also 371.91 Education
.5 **Paupers Poor**
For other relations see Pauperism, Paupers, in Relativ index
.51 Beggary Vagrancy Poorhouses
.52 Lodgings for poor
Dormitories, warm halls. Work in return for lodgings
.53 Money aid
Charity bureaus. Right of poor to be helpt. Savings funds
.535 **Taxation of poor**
.536 **Loans Loan funds for the needy**
.54 Aid thru necessaries and conveniences
Distribution of food, clothing and fuel. Cooperativ kitchens, ovens, stoves
See also 331.835 Popular restaurants
.55 Marriage Dowry Legitimation
.56 Free colonies: pauper or workmen's
.57 Land privilege
Lots for cultivation
.6 **Aged Infirm Bereft**
.61 Homes for the aged
.62 Retiring pensions
Funds for retirement and aid. Mutual aid funds
.625 **For widows and orfans**
.65 Infirm Aid in case of infirmity
.67 Deth: aid to survivors; widows, children, dependents
See also 362.625 Pensions for widows and orfans
.7 **Childhood: aid, protection, support**
Child welfare See also ethics, 179.2 Cruelty
See also 331.3 Child labor; 331.861 Apprentisship; 372.2 Kindergartens
.71 Nurslings
Giving over nurslings to 3d party. Crèches. Protection of infants
See also 362.15 Maternity hospitals
.72 Natural children Foundlings
.73 Orfans Orfan asylums Adoption and help
.74 Children neglected, illtreated, perverted
See also 179.2 Cruelty to children
.75 Various classes of children
Children of soldiers, sailors, public offisers

362.76 School enterprizes
.761 **Distribution of food at school**
Cooperativ children's kitchens; pupils' lunch rooms; soup for pupils
.764 **Distribution of books and school supplies**
.766 **School patronage**
.77 Distribution of clothing
.78 Sick and crippld children
Special hospitals and sanitariums for children
.8 **Other**
.9 **Special countries**
Divided like 930–999; e. g. 362.942 Hospitals of England
363 Political
Tammany, Primrose leag, Ku Klux, etc.
364 Reformatory Criminology
Schools; discharged convicts; criminal classes
365 Prisons Disciplin
See also 331.51 Convict labor
366 Secret societies
.1 Masons .2 Knights of Pythias .3 Odd Fellows .4 Rosicrucians
See also 371.85 College secret societies
367 Social clubs
368 Insurance
See also 334.3 Cooperativ insurance
.01 Theory Scientific basis of insurance
Probabilities. Statistics. Tables: value, use
.1 **Fire**
See also 614.84 Protection against fire
.2 **Marine**
.3 **Life**
.31 Rates
.37 Annuities
See also 336.35 Public annuities; 519.5 Probabilities
.4 **Social insurance Workmen's insurance**
See also 331.254 Insurance for laboring classes
.41 Accident Liability
.42 Sickness
.424 Maternity insurance
.43 Old age Invalidity
.44 Involuntary unemployment
.45 Burial
.46 Child insurance
.47 Marriage endowment
.5 **Casualty**
Agricultural

368.6 **Against breakage or damage**
Glas
.7 **Boiler**
.8 **Other risks**
.81 Financial losses
Depreciation of values or rights; mortgages; land titles; transferable securities; credit; insolvency; civil responsibility; etc.
.82 Burglary Theft
.86 Reinsurance Counterinsurance
.91 **Government control Commissioners**
.94–.99 divided geograficly like 940–999; e. g. Insurance in New York (including state reports, etc.) is 368.9747

369 Other associations and institutions

.1 **Hereditary and patriotic societies (American)**
.11 **General associations**
.111 Regular army and navy union
.112 Society of veterans of the regular army and navy
.113 Military and naval order of the United States
.114 Medal of honor legion
.115 Military order of foren wars of the United States
.116 Order of the old gard
Incorporated 31 Jan. 1896; organized 15 Oct. 1896
.117 Naval order of the United States
.118 Society of American wars
.119
.12 **Colonial societies**
.121 Society of colonial wars
.122 Society of colonial dames of America
A New York society with chapters in other states; known also merely as Colonial dames of America
.123 National society of colonial dames of America
A federation of separately incorporated societies in about 40 different states
.124 Society of the Mayflower descendants
.125 Order of the founders and patriots of America
.126 Colonial order of the acorn
.127 " society of Pennsylvania
.128 " daughters of the 17th century
.129
.13 **Revolutionary societies**
.131 Society of the Cincinnati
.132 Society of the daughters of the Cincinnati
.133 Sons of the American revolution
.134 Sons of the revolution
.135 Daughters of the American revolution
.136 Daughters of the revolution
.137 Children of the American revolution
.14
.141 Society of the war of 1812
.142 United States daughters of 1776–1812
.143 Military society of the war of 1812
.144 Society of the second war with Great Britain in the state of New York

369.145 Aztec club of 1847
.146 National association of veterans of the Mexican war
.147
.148
.149
.15 **Civil war societies, Union**
.151 G. A. R. (Grand army of the republic)
.152 Military order of the Loyal legion
.153 Society of loyal volunteers
.154 Union veterans union
.155 Union prisoners of war association
.156 Society of the army and navy of the Gulf
.157 National association of naval veterans
.158 Society of the army of the Cumberland
.159
.16
.161 Woman's relief corps
.162 Woman's veteran relief union
.163
.164
.165 Society of the sons of veterans, U. S. army
.166
.167
.168
.169
.17 **Civil war associations, Confederate**
.171 Confederate survivors association
.172 Confederate veterans association
.173 United sons of confederate veterans
.174 " confederate veterans
.175 Daughters of the confederacy
.18
.181 Spanish war veterans
.182 Society of the army of Santiago de Cuba
.183 Naval and military order of the Spanish American war
.184
.185
.186 **Societies arising from World war of 1914–19**
I American legion
.4 **Young peoples societies**
For religious societies see 267.6
.41 **Mixt: boys and girls**
.42 Boys
See also 136.77 The 'gang'
.43 Boy scouts
.46 Girls
.47 Campfire girls

370 Education

Disciplin in broad sense

.1 **Theory of education Meaning Aim Value**

Including philosofy of education, science of education and general discussions of the means by which education is advanst. Not limited to any curriculum, school or clas of schools. For specific methods, pedagogics, see 371

.109 History of educational theory

.15 Psychology applied to education

Imitation, suggestion, play, etc. Divided like 150 Psychology; e. g. function of memory in education 370.154

.2

.3 **Dictionaries Cyclopedias**

.4 **Essays Addresses**

.5 **Periodicals**

General. For periodicals limited to a special topic see that topic; e.g. kindergarten magazines 372.205. See also 371.805, 378.05

.58 Annuals Directories Catalogs

General; including discussions as to form and content of such publications. When devoted to a special topic clas with that topic, e. g. an annual devoted to kindergartens 372.2058. A catalog of a specific school is clast under number for that school

.59 Educational almanacs and kalendars for teachers

.6 **Organizations Conventions**

.61

.62 Associations Clubs

Permanent societies, their meetings and reports. Divided like 940–999 See also 371.103 Parent-teacher associations; 372.206 Kindergarten associations

.63 Congresses Conventions

Occasional congresses and conferences: international or interstate

.7 **Study of education Institutions and organizations for training teachers, supervisors, superintendents etc.**

Means and methods, including teachers colleges, normal schools, institutes etc. For need of training, kind and amount, see 371.12

.71 Teachers meetings

Clas meetings of teachers of a single institution (faculty meetings) with the institution; see table for school and college publications under 378.4–.9

.711 Plan and organization

Frequency, time, place, control, cost, etc.

.712 Programs, courses of study

.714–9 In special places

Divided geograficly like 940–999

.72 **Teachers institutes**

Divide like 370.71 above

.73 Teachers colleges Normal schools

Institutions primarily for training teachers; e. g. state normal schools, Teachers college of Columbia university; often with attacht 'model', practis or demonstration schools, in which students teach under supervision of their instructors. For training classes or courses attacht to schools not conducted primarily for training teachers etc., see 370.75

.731 Plan and organization Aims and functions Scope

Length and time of terms. Support: public, private

.732 Courses, programs Credentials: diplomas, degrees etc.

.733 Adjuncts: practis, model or demonstration schools

.734–9 Special countries and schools

Divided geograficly like 940–999

.74 **Education museums**

Including exhibits at international expositions, state and county fairs, etc

.75 Training classes

Clas here teachers classes or courses attacht to schools conducted primarily for another purpose than training teachers. For institutions conducted primarily for training teachers see 370.73

370.76 Schools of education (also courses) for training supervisors, superintendents, administrativ offisers, etc.

Harvard graduate school of education

.8 **Polygrafy**

.81 Collected writings of a single author

If not limited to a definit topic; e.g. Horace Mann, Henry Barnard, etc

.82 Collected writings of several authors

.9 **History, description**

General works covering both ancient and modern history, and including history of institutions, practis, and description of conditions. See also 136.791 The child among uncivilized and semicivilized peoples

.92 Educational biografy

Preferably clast in 923.7

.93–.99 History of education in special countries

Subdivided like 930–999

.9401 **Medieval Europe**

.9402 **Modern Europe**

371 Teachers Methods Disciplin

Practical methods. See 370.1 for theories of education. The following divisions concern instruction of all grades

.1 **Teachers Teaching personnel Professors, masters, instructors**

See also 370.7 Training of teachers

.101 **Duties and responsibilities Mission**

Team work. Students rights

.102 **Personal influence**

.103 **Relations to parents**

Mutual duties of parents and teachers. Parent-teacher associations

.104 **Relations to community Public status**

.105 **Social status**

.11 Qualifications Personality

See also 371.18

.12 Need of training; kind and amount

General discussions of special preparation of teachers and professors for their vocation. For training of teachers defined in degrees, courses etc., see 370.732

.13 Examination Certificates Certified teachers Licenses Rating

.14 Appointment Organization of teaching force

.142 **Appointment Transfer Discharge Tenure Contract**

.143 **Appointing body**

Board, committee, principal

.145 **Agencies**

Bureaus and associations for supplying teachers

.15 Professional status

Permanent profession vs steppingstone theory

.16 Salary and promotion Compensation Amount of servis

For pensions and insurance see 371.17

.161 **Salary**

2 **Increases**

4 **Bonuses**

371.162 **Fees**

.163 **Allowance for expenses**

.164 **Residence** **Living expenses**

.165 **Promotion** **Advance in rank**

For salary promotion see 371.161

.166 **Hours** **Daily or weekly servis**

.167 **Vacation** **Yearly servis**

.168 **Sabbatic year**

.17 Pensions and insurance for teachers

Carnegie pension fund

.18 Women as teachers

Feminization of teaching force

.19 Other topics

.2 **School organization, administration and supervision**

School records

Statistics. Publicity. Diary. 'Logbook.' Progress book. For general discussions; records of an individual school ar clast with that school. For government of students, disciplin, see 371.5. For government supervision see 379.15

.21 Admission Enrolment Matriculation

For college entrance requirements see 371.214. Standards of an individual school ar clast with that school

.211

.212 **Grammar or intermediate school admission standards**

Including standards of German bürgerschulen

.213 **Highschool standards**

Including standards of German gymnasia, French collèges and lycées

.214 **College standards**

Undergraduate and nonprofessional graduate courses in (American) colleges and universities

.215 **Professional and technical school standards**

.22 Tuition fees Free tuition Scholarships

See also 371.162 Professors fees; 379.13 Tuition fees of nonresident pupils in public schools: 378.34 College scholarships

.226 **Student income and expenses**

For income and expenses of college students see 378.36

.23 Terms Semesters Quarters Vacations Holidays Breaking up

See also Hygiene of vacations and holidays 613.76, 613.77; Closing for diseases, 371.712

.234 **Terms in 2 or more places**

For floating schools see 371.392

.24 Sessions Hours Recess

For exercise see 371.73 Care of body

.25 Classes Grades

For general discussions of size of clas, ungraded classes, provision for individual differences by special classes or groups. For individual instruction see 371.394. For psychology of individual differences see 136.7 Childstudy. For grading of schools, see 379.17

.253 **Length of school courses; e. g. 6 year course**

See also 378.241 Length of college course

371.26 Marking systems Educational mesurements and tests

Credit system: meaning and value of unit, semester, hour etc. For intelligence tests see 151.2

.27 Examinations: oral, written Cramming

See also 428.9 Language

For competitiv examinations see 371.53

.28 Promotions Demotions Retardation

.29 Other topics

.291 **Ending student connection**

See also 371.56

2 Graduation Commencements Diplomas

May be subdivided like 371.21. See also 378.2 College degrees

3 Student mortality Dropping out

.3 **Methods of instruction and study**

Under the heds below clas discussion of pedagogic value of these methods. For methods of teaching specific subjects, see those subjects; for their educational value see 375 Curriculum; e. g. teaching of mathematics 510.7, place of mathematics in curriculum 375.51

.31 Rote or concert teaching

.32 Textbooks Recitations

Collateral reading. Assignments. Home work. Discussion of use of textbooks and desirable qualities of textbooks in general. Textbooks themselvs and discussions of textbooks on special subjects ar clast with those subjects

.33 Lectures Oral and visual instruction

.335 **Visual instruction** **Lantern slides** **Moving pictures**

.34 Developing or inductiv method

.35 Art of questioning Catechetic method Socratic method

.36 Project method Topical method

.363 **Correlation**

.365 **Special days**

Celebrations. Programs. Historical days: Discovery day, Flag day, Memorial day, Constitution day, Independence day. Birthdays: authors and other noted persons; Washington's birthday. Nature: Arbor day, Bird day. Other: Thanksgiving, Christmas, Easter, etc.

.37 Seminary method Seminar Discussion

.38 Laboratory method

.39 Other

.392 **Floating schools or colleges**

Combining travel and shipboard instruction

.393 **Trips, excursions, visits**

.394 **Individual instruction**

By regular teacher or tutor, at home or at school. Batavia system. Dalton plan, Winnetka plan, Pueblo plan etc. See also 373.1 Private instruction

.395 **Small classes**

See also 371.47 Quincy system

371.4 Systems of education
For Fröbel's system see 372.2 Kindergarten

.41 Monitorial system Mutual system
Bell. Lancaster

.42 Educational guidance Vocational guidance and training

.425 **Vocational guidance**
Clas here also works on choice of vocation, even tho not made under school direction

.426 **Industrial education Manual training**
For equipment and cost of manual training schools or departments see 371.623 Machine shops, 371.676 Apparatus, etc. For subjects of study see 375.01–.9 For individual schools see 607 or 378.99

1 Educational value
2 In elementary schools
3 " secondary schools
4 " special schools
5 " colleges
8 Special subjects
Material on the various subjects taught as manual training may be kept together here, .82–.89 being divided like 620–690, and, for material not thus provided for, .81 being used, subdivided like main clasification; but in general practis such material is better clast under other numbers, i. e. place of these subjects in the curriculum 375.01–.9, elementary manual training 372.5, skild work under number for special subject
9 History and development
Divided like 940-999

.43 Military organization Military instruction

.44 Pestalozzian
Clas here all Pestalozzi's educational writings

.45 Jacotot

.46

.47 Quincy system

.5 Government Disciplin Authority

.51 Rules

.52 Attendance Truancy Tardiness Absences
Clas data relating to special school with number for that school. See also 379.23 Compulsory education

.53 Rewards Inducements
Prizes, favors, immunities, approbation, interest

.535 **Interschool literary contests**
Competitiv examinations. For interschool and intercollegiate debates see 374.245 For interschool athletics see 371.75

.54 Punishment Disciplinary penalties
Limits of school jurisdiction. Disciplin of consequences

.55 **Corporal punishment**

.56 **Other punishments**
Confinement; tasks; expulsion; suspension; discharge; probation

.57 Personnel responsible for disciplin Monitors

.58 Moral government Alcott system

.59 Student self government College systems

.595 **School city Ray system**

371.6 School premises and equipment

.61 Grounds Site
School playgrounds; athletic fields, stadiums

.62 Bildings
Requirements peculiar to schools. See also 727 Architecture of educational institutions. The following subdivisions apply to both special rooms and separate bildings

.621 **Study, lecture and assembly rooms**

.622 **Library and museums**
Art, science, etc. See also 022 Library bildings; 371.64 Function of school libraries; 021.3 Relation of libraries and schools; 027.7–.8 Reports of college and school libraries

.623 **Laboratories Observatory Machine shop**
See also 542.1 Chemic laboratories; 522.1 Observatories 371.66 Scientific apparatus and supplies

.624 **Gymnasium Swimming pool**
See also 725.85

.625 **Other special rooms or bildings**
Dormitories, clubs, infirmaries, Y.M.C.A. and Y.W.C.A.

.626 **Sanitation Lavatories**

.627 **Lighting**

.628 **Heating and ventilation**

.629 **Accessories**
Elevators, lifts, telefones, etc.

.63 Furnishing and decoration

.631 **Furniture**
Blackboards, desks, chairs, benches. For globes and maps see 371.6791

.632 **Musical instruments**

.633 **Floors: bare, coverd**
See also 721.6 Architectural construction
022.96 Library bildings
645 House decoration

.634 **Walls: tints, covering**

.635 **Decoration**
See also 729 Architectural decoration

.636 **Pictures, frescos Glas**

.637 **Sculpture**

.638 **Plants**

.639 **Other decoration**

.64 Libraries
Caracter and functions. For relation to public library see 021.3; for relation to other school rooms and bildings see 371.622. See also 027.8 School libraries; 027.7 College libraries

.641 **Relations of library to faculty and students**

.642 **School traveling libraries**

.643 **School reading lists**
See also 028.5 Reading of young

.644

.645 **Elementary school libraries**

371.646 **Secondary school libraries**

.647 **College and university libraries**

Departmental and seminar libraries

.648 **Professional and technical school libraries**

In 371.645–8 may be clast matter pertaining to desirability and scope of such libraries, tho it is better in 027.7–.8 with reports and other matter pertaining to their management

.65 Museums: caracter and functions

Divided if wisht like 010–999: e.g. 371.055 Science museums; 371.657 Art museums. Limited to caracter and functions of museums attacht to teaching institutions; see also under museum economy 069.015–6. See also 708 Art museums, and form division 074 under special subjects

.66 Scientific apparatus, laboratory equipment and supplies

Divided like 500; e.g. 371.662 Astronomic observatory

.67 Other apparatus, equipment and supplies

Divided if wisht like 010–999; e. g. 371.6791 Globes, maps, etc.

.7 **School hygiene**

.71 Helth of students Overstudy Fatigue

.711 **Sanitary conditions and inspection Helth crusades**

Board of helth. For sanitary engineer's side see 371.626

.712 **Medical inspection Clinics School nurse**

For personal conditions affecting helth and intellectual progress; e.g. clenliness, contagious diseases, nervous disorders, defectiv eyes, ears or teeth. Closing schools on account of epidemic or contagious diseases

.713 **Posture**

See also 371.631 Furniture (illdesignd desks and seats)

.716 **School meals**

Discussion. Administrativ problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc. see 642.58

.718 **Open air schools**

.72 Care of eyes Effect of study

.73 Care of body Gymnastics Calisthenics

For systems of gymnastics or physical training, and books of exercises see 613.71

.731 **Educational influence of physical training**

.732 **Gymnastics Calisthenics**

2 In elementary schools

3 " secondary schools

4 " colleges

5 " special schools

6 " girls schools

.733 **Military dril**

For military organization of school see 371.43

.734 **Fencing**

.735 **Swimming Bathing**

.736 **Riding**

.737 **Walking School promenades**

371.74 Recreations Games, etc. Athletics Diversions

See also 371.61 School playgrounds; 613.74 Hygiene of play; 796 Outdoor sports

.75 Championship games Boat races Interschool athletics

For other relations see Games in Relativ index following Tables

.79 Other special topics

.8 **Student life and customs**

Various aspects of student life and student activities outside regular courses of study

See also 784.62 Student songs; 378.29 College costumes

.805 **Student periodicals**

Discussion here. Periodicals themselvs preferably with their schools

.81 Student ethics Student honor Honor system

Ethical topics relating distinctly to school life; e. g. cribbing, cheating, copying, prompting, use of keys and ponies. Ethics of general application ar clast in 170

.82 Fagging and hazing Bullying German student duels

.83 Student organizations German corps

.836 **Ancient student societies**

.84 **Literary societies Scientific societies**

.85 **Secret societies**

Clas all college chapters here, thus bringing the fraternity together, with reference from the college. See also 366 Secret societies

.86 Society premises Society houses Halls Temples, etc.

.87 Student houses Lodgings Dormitories

.88 Commons Student restaurants Eating clubs

.89 Celebrations Customs Triumfs, burnings, etc.

Anniversaries Ceremonious receptions Student banquets

.895 **School plays Pageants**

Divided by language like 400; e.g. 2 English, 3 German

.896 **Clas days**

Of special institution, with institution

.898 **Colors Cheers**

Of special institution with institution

.9 **Education of special classes**

General questions; kind and methods of education for these classes For institutions see 362, 364. For study of abnormal children see 136.76 Combinations of mentally defectiv with either physically or morally defectiv ar clast in 371.92

.91 Physically defectiv

See also 362.4 Asylums for blind and def*

.911 **Blind**

See also 655.38 Printing for the blind

371.912 **Def**
Finger alfabet
.913 **Blind-def**
.916 **Crippled**
.92 Mentally defectiv
See also 362.3 Idiot asylums, 920.8 Lives of idiots, cranks, etc.
.927 **Speech defectivs**
See also 808.5 Elocution; 784.9 Vocal culture
.93 Morally defectiv Delinquents
See also 364 Reformatories. Criminal classes
.94 Border line cases
.95 Supernormal
.955 **Exceptionals Gifted children Precocity**
.96 Social classes
See also 375.007 Courses for different social classes
.961 **Princes**
.962 **Nobles**
.966 **Dependents**
See also 362 Hospitals, asylums and allied societies
.97 Special types
See also 136.77 Boys, the 'gang'
.974 **Freedmen Negroes**
See also 378.75–.76 for degree conferring colleges
.975 **Indians**
.976 **Orientals**
.98 Special nationalities
Special schools for foreners; e. g. Germans, Hungarians, Russians Japanese in United States
.99 Coeducation of races

372 Elementary education
Methods. Curriculum. Primary schools. Dame schools. Infant schools (under 7 years). Preschool education. See also Day nurseries 362.71; Minding schools 362.75; Crèches 362.71
.01 **Pedagogics and didactics of primary schools**
.1
May be used like 136.7 by those who insist on having childstudy with education
.2 **Kindergarten**
See also 371.44 Pestalozzian, for theory and early history. Put Fröbel's work and development of his system here
.201 **Theory Principles**
.202
.203
.204 **Essays**
.205 **Periodicals**
.206 **Societies**
.207 **Training of kindergartners**
.208
.209 **History**
Divided if wisht like 940–999

372.21 Methods
.211 **Gifts and occupations**
.212 Gifts
.213 Occupations
.214 **Stories**
.215 **Songs and games**
.22 Influence of kindergarten
.23 Relation to other schools
.3 **Sensory training Observing powers**
Object teaching; science
.31 Methods
Montessori
.35 Nature study
Divided like 500–599; e.g. Birds 372.35982
.36 Gardening
.4 **Reading Alfabet Fonics and word methods Spelling**
See also 428.6 Elementary readers
.45 Simultaneous teaching of reading, writing and spelling
.5 **Elementary writing and manual work**
See also 741 Freehand drawing
.51 Writing
First efforts, imitating printed roman letters
.52 Drawing Design
See also 741 Drawing
.53 Clay modeling
.54 Sewing, etc.
.55 Elementary basketry, weaving and braiding
.6 **Elementary grammar Language lessons**
See also 400 Philology, subdivision 8 under each language
.61 Mother tung National language
.65 Second language
.7 **Elementary arithmetic**
Including mental arithmetic. See also 511. For Abacus see 511.2
.8 **Other studies**
Divided if wisht like 010–999; e.g. 372.82 Religion
.891 Elementary geografy
See also 910.7. Elementary textbooks may be put with their subjects, but a primer of geografy is more useful to a student of elementary schools and methods than to one interested in Geografy, Description, and Travel, Text books, except primary, go with their subjects
.9 **Special countries and schools: history, reports, catalogs etc.**
Divided like 940–999; e.g. 372.942 English elementary schools. Put here elementary schools whether public, endowd or private

373 Secondary Preparatory

Academic; high schools; junior high schools. Clas here discussions of general theories, methods, curriculums etc. pertaining specificly to secondary education, regardless of source of support. Clas here also all private or endowd secondary schools for boys or both sexes; but clas all public (taxsupported) schools in 379.4–.9, all elementary schools (regardless of support) in 372.9, all schools and colleges solely for women in 376, and all colleges for men or coeducation in 378. Clas methods and questions peculiar to monastic, diocesan and parochial schools in 377, but clas the schools themselvs in 372. 373. 378, etc. according to their grades

For specific topics see 371

.1 Private instruction: tutor, governess, coach

.11 Relativ advantages of instruction at home and in school

See also 371.394 Individual instruction

.2 Day schools Boarding schools

.4–.9 Special countries and schools: history, reports, catalogs etc.

Divide like 940–999; e.g. 373.42 Higher English schools, Eton, Harrow, etc.

374 Adult education

Home education. Self education and culture. Cultural, personal aspect of education.

Subdivided by 0 with form numbers if wisht; e.g. 374.05 magazines pertaining to this work, 374.06 Conferences, conventions, institutes, general meetings.

The term Adult education covers the broad field of self education thru private reading, study clubs and reading circles, summer, vacation, evening and correspondence schools, lecture courses and other forms of extension teaching and other agencies for extending more widely opportunities and facilities for education outside the usual teaching institutions.

For relations of this work to libraries, the natural centers for such activities, see 021.2. See also 378.13 University extension

With or without personal guidance

.1 Solitary study Private reading Conversation

Advantages to be derived from reading. Study alone with or without aid of reading lists, syllabuses, etc.

Reading lists themselvs, syllabuses and other aids to study belong with other bibliografies (016) or with compends under their subjects. They may however, if preferd, be kept together under 374.19, divided like the classification; e.g. syllabus on English history 374.19942; on library economy 374.1902

See 028, for preparation of guides, policy, methods, etc.

For vocational guidance see 371.425

.2 Associated study Clubs

.21 Study clubs

Clas here 'travel clubs' which study about places without traveling to see them. See also 374.25

.22 Reading circles Book and periodical clubs

.23 Lyceums Literary clubs

.24 Debating societies Oratorical clubs

.245 Interschool and intercollegiate debates

For interschool literary contests see 371.535

374.25 Traveling clubs Educational value of travel

Clubs which travel for education. See also 371.392, 371.393, 374.21

.28 Community centers

Whole community as a club of varied interests. Put here discussion of use of school bildings for various community purposes

.3

With personal guidance

Either alone or in groups, clubs or classes

.4 Correspondence teaching Manuscript aids

Clas here works on value, history and methods of correspondence teaching; also printed general correspondence courses. Courses on special subjects ar better clast with their subjects

.43 Societies for encouraging home study

.44–.49 Correspondence schools

General schools divided like 940–999. Special schools are better clast with their subject, with only a reference here: e.g. correspondence schools of agriculture 630.714

.5 Lectures

Discussion of lectures as a method of education, either as single lectures, or as a series of lectures on different subjects; lists of lectures; courses on the same subject unsupported by any other of the 7 factors of a complete extension course: i.e.

1 Lectures 3 Clas 5 Guided reading 7 Examination
2 Syllabus 4 Papers 6 Club

Lectures themselvs, whether issued separately or in collections, ar clast with subject treated

.6 Extension courses Lecture study

.62 Lecture study

3 or more lectures on the same subject, with 2 or more of the 7 factors

.64 Extension courses

5 or more lectures on the same subject with 4 or more of the 7 factors. For extension courses taken for credit under college or university auspices see 378.13

.8 Continuation schools

Summer, winter, vacation, night (adult) etc. German auxiliary schools. Divided like 940–999. For public (taxsupported) evening or night schools see also 379.19

.9 Central organizations, state departments, institutes

N.Y. state library extension division, Brooklyn institute, Cooper institute Chautauqua, etc.

375 Curriculum Course of study

Clas here general discussions of principles and methods of curriculum construction. Curriculums for special kinds of schools or on special subjects ar better clast with those schools or subjects; e.g. 373 High-school curriculum; 375.9 History course

.001 Order of studies

.002 Single course Mandatory studies Required courses

.003 Parallel courses

.004 Optional courses Electiv system

.005 Balanced courses Group system

Special topics

.006 Overcrowding curriculum Coordination of studies

Economy in curriculum. Minimum essentials

375.007 Courses for different classes of society
Liberal education. Relativ value of studies
1 For bredwinning vs culture
2 Failure of course to develop efficiency
.008 Courses for schools of special kinds
Clas here general discussions only. Clas material relating to special schools or special kinds of schools under their respectiv clas numbers
.009 Courses for institutions in special countries
Divided like 930–999. See also 379.4–.9

.01–.9 **Subjects of study**
Divided like the classification 010–999; e.g. 375.5 Place of science in the curriculum, 375.84 French literature in the curriculum, 375.88 Classics in the curriculum
Methods of teaching individual subjects, also textbooks, may be kept with educational literature by adding letters to 375 as follows: A general, B educational value of specific subjects, C place in curriculum, D methods of teaching specific subjects, E textbooks;
e.g. 375.32 B Educational value of political science
375.32 C Place of political science in the curriculum

376 Education of women
See also 396.4

.1 **Physical capacity of women**

.2 **Mental capacity of women**
See also 136.1 Mental characteristics as influenced by sex

.3 **Home or domestic instruction**
By tutor or governess. See also 374

.4 **Fashionable education 'Finishing' schools**
Discussion. For prospectuses, catalogs, etc, see 376.9

.5 **Convent education**
Discussion. For prospectuses, catalogs, etc, see 376.9

.6 **Higher education of women**
Secondary and college

.63 Secondary: preparatory schools for girls
All between elementary and college. Discussion. For girls highschools see 379.4–.9; for private preparatory schools see 376.9

.64 Influence of college education on women
Duties of college women as such

.66 Associations of college women
Association of collegiate alumnae. Alumnae of a single college with that college

.7 **Coeducation Segregation Separation**
Discussion of collegiate education of women in separate institutions or those for both sexes, whether in the same or separate classes. See 378 for coeducational institutions, 376.8 for separately organized colleges, either affiliated like Barnard and Radcliffe or independent like Vassar, Smith, etc.
Clas here by attraction general discussion of coeducation of sexes in college and secondary school

.8 **Colleges for women**
Degreeconferring colleges go here. Arrange material of each college by "Table for school and college publications" following 378.99. All other schools for women go in 376.9

.9 **Special countries and schools: history, reports, catalogs etc.**
Subdivided like 940–999; e.g. 376.943 Education of women in Germany

377 Religious, ethical and secular education
Relations of religious to secular education. For inculcation as wel as actual teaching of definit ethical or religious doctrins see 375; e. g. instruction in duties of citizenship, patriotism 375.172, course in Christian evidences 375.239. Clas catalogs, history, etc. of a denominational school regardless of religious affiliation, but clas here books dealing in general with schools of a certain denomination or order; e.g. educational system of the Jesuits 377.35. For Sunday schools see 268

.1 **Religious instruction Bible in public schools**
Including sectarian instruction or influence in public schools. Public school teachers in religious garb. Conscience clause of English elementary school code. Weekday religious education

.2 **Ethical education**
Ethical training, without religious teaching, as advocated by ethical societies
See also 170.7 Study of ethics; 375.17 Place of ethics in curriculum

.3 **Monastic or abbey schools**
Écoles congréganistes. Divide like 271. See also 271 Religious orders; 376.5 Convent education of girls

.4 **Diocesan schools Cathedral schools**
Domschulen, stiftschulen

.5 **Parochial schools**
See also 257 Parish educational work

.6 **Missionary schools**
Establishment and conduct of schools as part of mission work. See also 266 Missions

.7 **Charity schools**
Mainly for elementary education. See also charitable institutions 362.76

.8 **Church and education**
Subdivided like 280; e.g. 377.82 Relation of Roman catholic church to education. Discussion of denominational schools or educational associations; e.g. 377.82 Association of Catholic colleges of United States
See also 261.5 Church and intellectual development

.9 **Nonchristian religions and education**
Subdivided like 290; e.g. 377.97 Relation of Mohammedanism to education

378 Colleges and universities
With power to confer degrees; also junior colleges. For men only and for both sexes. For women's colleges see 376.8
Methods and curriculum

.01 **Definition of college and university Aim**
Advantages and influence of college training; e.g. on business capacity

.014 College terminology, 'slang'
Including also student slang. See also 427, 437, etc.

.05 **Academic periodicals**
Periodicals devoted to college and university interests. Those issued by colleges, schools, etc. ar scatterd either by subject or under college numbers

.06 **General college associations**
Association of New England colleges See also 370.6

.068 Associated alumni University clubs
For alumni associations of any one college, see T under college number

.069 Duties of college men as such
Obligations imposed by their greater knowledge

378.1 Organization Government Location Scope, field

Classes, colleges, graduate departments, etc.

.11 Administrativ offisers

President, deans, etc.

.113 **Disciplinary offisers, judicial corps, university court**

.12 Teaching staf Faculty

Exchange of professors. For qualifications see 371.11

.121 **Freedom of teaching**

See also political science, 323.444

.13 University extension

Conducted by universities. See also 374

.14 College year Summer or vacation instruction All the year session

.15 Location and size Large vs small

.153 **City vs country colleges**

.16

.17

.2 Academic degrees and costume College colors

See also 614.21 Medical degrees

Degrees

.21 Degree conferring body and powers

College, university or state. See also 614.21 State regulation of medical education

.22 Graded degrees

Pass, honor, cum laude, magna cum laude, etc.

.23 Degrees in course

Advanst degrees conferd at specified periods on graduates in good standing, without evidence of advanst attainments

.24 Degrees for completion of courses

With or without examination

.241 **Time and residence required Length of college course**

.242 **Subjects allowable for liberal degree**

Whether technical courses should be credited toward liberal degrees; theses

.243 **Differentiation of degrees: B.A. B.S. B.L. etc.**

.244 **Degrees on examination**

With or without residence

.25 Honorary degrees

.26 Degrees by purchase or forgery

Bogus degrees

Insignia

.27 Seal Coat of arms Motto

.28 Colors: institution and clas College flags

.29 Academic gowns and hoods

378.3 Endowment of reserch Fellowships Scholarships Student aid

.31

.32 Endowment of reserch

Carnegie institution. Rockefeller institute. Incentivs to reserch. Prizes. Opportunities for reserch. Nobel prizes. Competitions

.33 Fellowships

.34 Scholarships

Rhodes scholarships Traveling scholarships

.35

.36 Student income and expenses

.362 **Loan funds Student aid societies**

.364 **College employment bureaus Faculty committees**

Other organizations for securing work for students

.365 **Student ernings**

Working way thru college. Ways of erning

.368 **Student expenses: extravagance, economy**

.4–.98 Special countries and colleges: history, reports, catalogs etc.

For women's colleges, see 376.8

Subdivide like 940–999; e.g. 378.42 English universities; 378.741 Maine colleges

The various colleges of any section may be given each a number or be arranged alfabeticly. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figures) used to designate the college; e.g. a history of Harvard college would be markt 378.744 HE, and a second history would be numberd 378.744 HE1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers

If preferd, colleges and universities may be arranged alfabeticly under continent number, insted of being clast first by country or state; e.g. European universities under 378.4 in alfabetic order regardless of country, United States colleges and universities all in one alfabet under 378.73

.99 Professional, technical and other special schools Professional education

Best kept with subject, but may be compactly groupt here. Divided like the classification: e.g. 378.992 Theologic schools, 378.9934 Law schools, 378.9961 Medical schools

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

A Charter and statutes
B Trustees Regents Resolutions, reports, etc
C Administration President, chancellor Reports, etc
D Finances Tresurer's reports
E History Foundation, growth, etc
F Biografy Necrology
G General catalogs Triennials, etc
H Annual catalogs Attendance, registers, etc
I Handbooks Circulars of information
J Bulletins Official periodicals
K Commencements, inaugurals, etc Baccalaureate and other addresses
L Programs Tickets Memorabilia
M Faculty (as a body) Publications Regulations Certificates for admission
N Lectures Clas manuals Examination questions
O Student theses Orations, essays, etc
P Student catalogs Society annuals, etc
Q Student periodicals
R Student societies, including periodicals
S Student miscellany Songs Clas day, etc
T Alumni Societies, committees, etc
U Classes Histories, records, etc
V Pictures Clas albums
W Bildings and grounds Descriptions, maps, etc
Z Schools: divinity, law, medical, etc

379 Public schools Relation of state to education
.1 **Public school system**
.11 School funds School finance Cost to public
.12 National and state aid to education
.121 **Public aid to private and sectarian schools**
.123 **Land grants**
See also 336.14 Public finance
.124 **Subsidies**
.13 Local support
Taxation. Bonds. Endowment. Nonresident tuition. See also 336.28 Taxation
.14 School laws and regulations Divided like 940–999
School age. Working permits

379.15 School supervision and control: national, state and local Centralization
Standardization of schools
.151 **National**
.152 **State: department, inspectors, etc.**
.153 **Local: superintendent, school committee, board**
Supplies, free textbooks, etc. For school meals see 371.716
.154 **Individual: parents and others**
.156 **State textbooks**
.16 Public colleges and universities: national, state and local
Only discussion here; for individual colleges see 378.4–.9
.17 Secondary schools
Discussion. For individual schools see 379.4–.9
.171 **Highschools Academies**
6 year highschools; junior highschools
.172 **Grammar schools**
.173 **Rural schools**
.175 **Central plan Consolidated schools Conveying pupils**
.18 Elementary schools Kindergartens
Questions of public maintenance. For individual schools see 372.9
.19 Part time schools Evening schools
See also 374.8
.2 **Illiteracy Instruction of illiterates**
.21 Illiteracy and crime Education and crime Criminal illiterates
.22 Illiteracy and pauperism Indigent illiterates
See also 339.1 Pauperism; 362.51 Poorhouses
.23 Compulsory education
See also 371.52 Truancy
.24
.3 **Public vs private and endowd schools**
.4–.9 **Special countries, sections, cities, etc.**
Subdivided like 940–999: e.g. 379.73 Reports of U.S. commissioner of education; 379.744 Education in Massachusetts; 379.7471 in New York city. Keep state departments separate from city and other local systems by numbering state reports. A1–A8, using A9 followd by author's initial (lower case) for history of schools of any state; e.g. Fitch's *New York public schools* 379.747 A9f

380 Commerce Communication

Public utilities. The technical side of these questions goes mostly in 650 Useful arts. Here belong discussions of social and political relations.

.1 **Theory**
.11 Supply and demand
.12 Markets in general
.16 Government control of business and public utilities

381 Domestic trade

382 Foren trade

Including trade between mother country and colony

.2 **Official representativs Consulates Consuls**
Consular reports

383 Postal servis

See also 353.4 U. S. administration

.1 **Transport by mail**
Letters, parcel post, etc.

.2 **Postage stamps Postage permits**
Precanceld stamps

.21 International stamps

.22 Philately Stamp collections

.3 **Banking by mail**
Money orders; postal orders. See also 332.22 Postal savings banks

.4 **Organization of postal servis**
Government post, private post, postal union

.49 In special countries
Divided like 940–999

384 Telegraf Cable Telefone

See also 621.38 and 654

.1 **Telegraf**

.4 **Cable**

.5 **Radio Wireless**
Telegraf and telefone

.6 **Telefone**

385 Railroad Express Freight

Government ownership or control. Interstate commerce commission. See also 656 Railroading

386 Waterways Inland navigation

See also 626 Canal engineering; 656 Transportation, under useful arts

.1 **Inland canals Rivers Inland ports**

.19 In special countries
Divided like 930–999

.2 **Interoceanic canals**

.3 **Inland or river navigation**

.39 In special countries
Divided like 930–999

.5 **Transport of ships by rail Trains by boat**

387 Ocean and air transport

History of shipping. Ship subsidies
See also useful arts, 656 Transportation

.1 **Ports and maritime equipment**

.5 **Maritime transport**
Merchant marine; maritime lines

.7 **Air transport**

388 Local transit: city and interurban Highways

See also engineering 625

.1 **Highways Roads Bridges**

.3 **Land transport**
Carriages, coaches, carts etc. Stages (horse or motor)

.4 **Street railways Quick transport in large towns**
For teknical questions see 625.6

389 Weights and mesures Metrology

390 Customs Costumes Folklore

These heds ar for discussions by topic. Customs, etc. of any special country go in 913–919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese customs, 915.2. For customs of primitiv man, see 571

391 Costume and care of person

See also 646 Clothing; 613.4 Hygiene

.1 Costumes of men
.2 " " women
.3 " " children
.4 Extremities Accessories
Hats, gloves, stockings, shoes, sandals; mufs, fans, canes, parasols; etc.
.5 Hairdressing Barbers See also 646.7 Toilet
.6 Care of person Bathing Toilet
.7 Ornaments and jewelry

392 Birth, home, and sex customs

.1 Birth customs: christening, circumcision
.2 Sacrifice and exposure See also ethics, 173.4 Infanticide
.3 Family and home relations
.4 Betrothal
.5 Marriage Weddings
.6 Sex relations Concubinage

393 Treatment of the ded

See also 614.6 Public helth

.1 Earth burial See also 718 Cemeteries
.2 Cremation
.3 Embalming, mummies
.4 Exposure
.9 Special funeral customs: wake, suttee

394 Public and social customs

.1 Eating, banquets
.2 Shows and diversions
.25 Carnivals
.26 Holidays
Including days which, tho not legal holidays, ar similarly observd. While separate days *may* be clast under 394.262, .264 and .269, it is recommended that these numbers be used only for general works and that separate days be kept in a single group under 394.268. See also under folklore 398.33 Fêtes: education 371.365 Special days
.262 By season
2 Spring 3 Summer 4 Autumn 5 Winter
.264 By kind
2 Religious 5 Scientific 8 Literary
3 Economic Social 7 Art 9 Patriotic
.268 Special days Alfabeted by name of day
.269 By country Divided like 930-999

394.3 Games Dances, etc.
.4 Official ceremonies Ceremonious observances
.43 Enthronement of soverens
Consecration, coronation, taking oath
.44 Joyful entries Receptions
Durbars, levees, etc.
.45 Triumts
.5 Processions Pageants
.6 Fairs Kermess
.7 Chivalry Tournaments Justs
.8 Dueling Suicide
For other relations see Dueling in Relativ index following Tables

395 Etiquet

Codes of social procedure and behavior. For social ethics see 177

396 Woman's position and treatment

For costumes, see 391.2; biografy, 920.7
If a special library about women is wisht, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc. but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of women, from the rest of medicin. Books on woman in general go in 396

.1 Emancipation
.2 Legal status, property, rights, etc.
.3 Political status
See 324.3, Suffrage; 329.83, Woman suffrage party
.4 Education
See also 376, Education of women
.5 Employment
See 331.4 Labor of women; 371.18 Teachers; 023.56 Librarians; 069.6318 Museum employees
Divided like the general classification; e. g. woman as scientist, 396.55; woman's exchange, 396.56; woman as painter, 396.575; woman as author, 396.58, etc.
.6 Woman in home
.7 Delineation of woman in art
.8 Delineation of woman in literature
.9 Woman in history, politics, war Amazons

397 Gipsies Nomads

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which til recently had no place in the linguistic groups of 400, as the Gipsy people hav no place in the geografic divisions of history

398 Folklore Proverbs, etc.

See also 291–3 Mythology

This section is for material needed in studying Folklore. Mere stories for children, unless having a value to students of folklore, go in 813, 823, etc. or in J, if there is a Juvenil collection

.1 **Primitiv traditions**

.2 **Legends, tales, traditions**

.21 Tales

.22 Legends Sagas

Legends of Arthur, Charlemagne, Roland, Faust, Reynard the fox, etc. But poems, dramas, etc. based on these legends clas in literature

.3 **Folklore, traditional beliefs and customs, popular superstitions**

.31 Fire

.32 Haunted localities

Cemeteries, burnd cities, ancient ruins, haunted houses, caves, water sources, forests etc.

.33 Fêtes

See also 394.26 Holidays

.331 **The year Calendar dates**

.332 **Principal fêtes**

1 Spring

11 April 1 All fools day

12 Easter Easter eggs

2 Summer

3 Autumn

4 Winter

41 Christmas

42 New Year

43 Lent

.34 Local customs

House, outbildings, furniture etc

.4 **Fairies, elvs, ogers, monsters**

Bogies, gnomes, dragons, vampires, werewolvs, etc.

.5 **Chapbooks**

.6 **Riddles**

.7 **Dream books**

.8 **Song books Nursery rimes Popular cries**

Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folklore, etc.

.9 **Proverbs**

399 Customs of war

Wepons War dances Treatment of captivs Scalping Mutilation Burning Cannibalism See also 623.4 Firearms

Philology

400 Philology in general

In philology the general works put under 400–419 deal almost entirely with Indo-European languages. They ar put here because they cover most of the divisions of this clas, and in practis ar most convenient here. Under 439, 479 and 489 ar placed books limited to Teutonic, Romance or Hellenic groups, and under 491 ar placed only such general works as ar specificly limited to Indo-European group

401 Philosofy Origin of language

402 Compends, outlines

403 Dictionaries, cyclopedias

404 Essays, lectures, addresses

405 Periodicals

406 Societies, transactions, etc.

407 Teaching and study of languages in general, also of philology

Works on teaching and study of an individual language ar clast with that language

408 Polygrafy Collections Different kinds of language

.7 **Dialects and patois of languages in general Dialectology**

Dialects of a special language ar clast under number for that language

.9 **Universal language International Artificial**

.91 Volapük

.92 Esperanto

409 History of language Distribution

.1 **Geografic distribution of languages**

Divided like 930–999

410 Comparativ

410–419 includes *comparativ* works in *general* and also *comparativ* works on Indo-European group in general, but general *and comparativ* works on Teutonic group ar 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language. 410–418 may be subdivided like 420–428

411 Orthografy Orthoepy Alfabets

412 Etymology, derivation

413 Lexicografy Lexicology Polyglot dictionaries

414 Phonology Visible speech Natural laws of language

See also 612.78 Physiology of speech

415 Grammar, morfology, syntax

416 Prosody

417 Inscriptions Paleografy

See also 421.7, 471.7, 481.7, etc. Rare early mss ar put in 091

418 Texts

419 Language communicated otherwise than by words or letters of an alfabet

.1 Sign language

For def mute alfabets, see 371.912

.2 Picture language

.25 Hieroglyfics

See also 493.1

420 English philology

.1 Philosofy .2 Compends .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collectiv works .9 History of the language

421 Orthografy

See also this hed treated in general grammars placed under 425

.1 Alfabet

For def mute alfabets, see 371.912

.2 Vowels Difthongs Aspirates

.3 Consonants

.4 Phonetic spelling Simpler spelling

Spelling reform

.5 Orthoepy

.6 Accent

.7 Paleografy Inscriptions

.8 Abbreviations

For stenografic and other uncommon contractions and abbreviations, see 653 Shorthand

.9 Punctuation

422 Etymology Derivation

422 is limited to derivation. For inflection, also called etymology, see 425.

.1 Origin and laws of English language

.2 Prefixes Suffixes

.3 Reduplication

.4 Foren elements

.5 Noun forms: case, number, diminutivs

.6 Adjectival forms Degrees of comparison

.7 Pronominal forms: personal, possessiv, relativ, etc.

.8 Verbal forms: moods, tense, voice, etc.

.9 Particles: adverbs, prepositions, etc.

423 Lexicology Dictionaries Idioms

.1 Idioms .2 English .3 German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i. e. that by which it is alfabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tungs is more convenient. References in either case show what may be found in the other place

424 Synonyms Homonyms

425 Grammar

425 includes general works, covering also orthografy and prosody

.1 Morfology Inflection

Divided like 425.2 Syntax; e. g. .5 Nouns, etc. See 422

.2 Syntax

.3 Arrangement of words and clauses

.4 Particular sentences: conditional, hypothetic, etc.

.5 Nouns

.6 Adjectivs Articles

.7 Pronouns

.8 Verbs

.9 Particles

426 Prosody

See also the hed Prosody, in general grammars 425

.1 Quantity and accent

.2 Versification

.3 Feet

.4 Figures of prosody

.5 Meters

.6 Rimes

.7 Strophe and antistrophe

.8 Textbooks for writing verse

.9

427 Dialects Patois Language at different periods Slang

Subdivided by geografic divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect 427.41. The dialects of other languages take the geografic subdivisions of their countries. Dialects not provided for in these heds ar placed with the last; e. g. American and Scotch with 427.9. The division by time is made with a 5th figure after 0; the earliest form of the language is markt .01; .09 is used for modern slang, e. g. 427.01 Old English

428 School books Texts for learning the language

Including only books for *learning* the language, with grammatic or philologic notes, etc. For other works see literature of the language, 820

.1 **Spelling books**

.2 **First lessons** **Elementary composition** For Rhetoric see 808.

Including in other languages books like Fasquelle, Ollendorff, Chardenal, Latin prose, etc. See also 372.6, Elementary grammars

.24 For foreners

Divided like 430–499 (for other than English, like 420–499). Clas here books intended for use of foreners in learning the language. Subdivide by language of those for whom intended; e. g. English lessons for Italians 428.245, for Russians 428.24917

.3 **Errors of speech** **Vulgarisms** **Use of words**

See 427.09 Slang; 424 Synonyms

.6 **Elementary readers** See also 372.4 Education

For primers and primary readers see 372.4. Clas here 3d and 4th readers, and put higher readers with literature collections; 808.8 if general, 820.8 if English or English and American, etc.

.7 **Selections**

.8 **Texts of individual authors**

With grammatic notes and questions. Preferably clast in 800 with cross references here

.9 **Examination papers**

429 Anglo-Saxon

Subdivisions .1–.8 correspond to 421–428

All languages are subdivided like 420 English

430 **German**

437.01 Old High German, to 1100 A.D.; 437.02 Middle High German, 1100–1500

439 Other Teutonic languages

Including general works on Teutonic group

.1 **Western Germanic languages in general**

.2 **Frisian** **Old Saxon**

.3 **Netherlandish**

.31 **Dutch**

.32 **Flemish**

.36 **Afrikaans**

.4 **Low German** **Plattdeutsch**

.5 **Scandinavian**

.6 **Old Norse** **Icelandic** **Faroese**

.7 **Swedish**

.8 **Danish** **Norwegian**

.81 **Danish**

.82 **Norwegian**

.9 **Gothic**

All languages are subdivided like 420 English

440 **French**

Old French, as the earliest form of the language, is 447.01

447.9 **Canadian and creole French, etc.**

449 Provençal

.9 **Catalan**

450 **Italian**

459 Rumanian

Moldavian, Wallachian, Dacorumanian, Istrorumanian, Transylvanian, Bukowinian, Macedorumanian

.9 **Romansh**

Ladin, Friulan, Rheto-Romanic

460 **Spanish**

469 Portuguese

.9 **Galician**

470 **Latin**

Works on Latin and Greek together, unless very clearly most useful in Latin, go with Greek, which here as well as elsewhere is made to include general works on the ancient classics

479 Other Italic Medieval and modern Latin

Including general works on Romance group

480 **Greek**

Divide 487, Greek dialects, like 930; e. g. 487.2 Alexandrian Greek; 487.3 New Testament Greek; 487.81 Macedonian; 487.923 Ionic, etc.

489 Other Hellenic Modern Greek

Including general works on Hellenic group

490 **Other languages**

Each language subdivided if wisht like 420 English

491 Indo-European languages in general

Besides Teutonic, 420–439; Italic, 440–479; and Hellenic, 480–489
This hed, 491, includes general works on the Indo-European tungs, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also notes under 400 and 410

.1 **Indic**

.2 **Old Indic Sanskrit**

.27 Sanskrit dialects Primary Prakrits

.3 **Middle Indic or Prakrit par excellence**

Popular Hindu idiom. Secondary Prakrits

.3701 Pali

Language of canonical books of Southern Buddhists

.4 **Modern East Indian languages**

Tertiary Prakrits
Excluding Dravidian, which is 494.8

.41 Sindi

.42 Panjabi

.43 Hindustani Hindi

Bradch, Blascha, Marivari, Dakhni, Gorkha

.44 Bengali

.45 Uriya Orissa

.46 Marathi

.47 Gujerati

.48 Singhalese Elu

.5 **Iranic**

.51 Old Persian West Iranic

Official language of Persian kings. Language of cuneiform inscriptions

.52 East Iranic Zend (Avestan) Old Bactrian

Language of the Avesta or sacred book of Zoroastrianism and the Parsees

.53 Pehlevi (Huzwaresh) Parsee

.531 Huzwaresh Pehlevi

.532 Parsee

.54 Armenian

.55 Modern Persian Neopersian

.56 Ossetic

.57 Kurdish

.58 Afghani Pushtu

.59 Other Iranic languages

.591 Baluchi

.592 Pamir languages

.6 **Keltic**

.61 Gadhelic group

.62 Irish

.63 Gaelic or Scotch Erse

.64 Manx

Language of Isle of Man

.65 Cymric group

.66 Welsh or Cymric

.67 Cornish

.68 Armorican or Bas Breton

.69 **Basque**

491.7 Russian
.79 Ruthenian
Little Russian, Russniak
.8 Other Slavic or Slavonic languages
Windic. Not including Russian, clast under 491.7, nor Ruthenian, clast under 491.79

Southeast Slavonic group

.81 Bulgarian (Church Slavonic)
.82 Serbo-Kroatian Serbian
.83 Kroatian
.84 Slovenian

West Slavonic group

.85 Polish
.86 Bohemian Bohemian Czech
.87 Moravian Slovakian
.871 Moravian
.872 Slovakian
.88 Sorbian or Sorabian Wendish or Lusatian
.89 Polabian
Slavonic of the Elbe
.9 Lettic Baltic languages
.91 Old Prussian
.92 Lithuanian
.93 Lettish
.99 Other Indo-European languages
.991 Albanian

492 Semitic

Northern group

.1 Aramaic
.19 Assyrian Babylonian
Babylon and Nineveh cuneiform
.2 Chaldee
.3 Syriac (Peshito)

Central group

.4 Hebrew
Canaanitish dialects
.5 Samaritan
Language of the Pentateuch
.6 Phenician Punic Carthaginian

Southern group

.7 Arabic
.8 Ethiopic
Ethiopian Semitic languages; literary Ethiopian; Ghez; Abyssinian dialects; Amharic (language of the Abyssinian court since 1300 A.D.); Tigrus Harari
See also 493.5 Hamitic Ethiopian languages
.9 Himyaritic or Sabean
Ancient language of Yemen and eastern Arabia: Minaeen, Sabean, Hadramaut, Ehkili

493 Hamitic

.1 Old Egyptian
See 419.25 Hieroglyfics
.2 Coptic
.3 Libyan or Berber group
Algerian Kabyle, Mozabi, Moorish, Touarik or Touareg
.5 Hamitic Ethiopian languages
Hamitic group of languages of central Africa, spoken in south of Egypt and in certain parts of Abyssinia
See also 492.8 Ethiopian Semitic languages
.51 Somali
.52 Galla
.53 Bedja
Language of Bedouins
.54 Saho
.55 Dankali
.56 Agaou

494 Scythian Ural-Altaic Turanian

Except Malay-Polynesian languages clast under 499

.1 Tungusic languages
.11 Tungus proper
.12 Lamut
.13 Manchu
.2 Mongol languages
.21 Eastern Mongol
.22 Kalmuk
.23 Buriat
.3 Turkish or Tatar languages
.31 Yakut
.32 Uigurian
.321 Uigurian proper
.322 Djagataic
.323 Turkoman
.33 Nogair
.34 Kirghiz
.35 Osmanli or Turkish proper
.4 Samoyed languages
.41 Northern branch
.411 Yurak
.412 Targhi
.413 Yeniseian Samoyed
.42 Eastern branch
.421 Samoyed-ostiak
.422 Kamassin

494.5 Ugrian, Finno-Hungarian, Finno-Ugric, or Uralic languages
.51 Ugric languages
.511 Magyar Hungarian
.512 Vogul
.513 Hongro-ostiak
.52 Finnish of the Volga
.521 Cheremissian
.522 Mordvinian
.53 Permian languages Finno-Permian
.531 Permian
.532 Syryenian
.533 Votiak
.54 Western Finnish
.541 Suomi Finnish
.542 Karélian
.543 Chudic
.544 Krévin
.545 Esthonian
.546 Livonian
.55 Lapp
.8 Dravidian languages
Tamul, Tamil or Malabares languages
.81 1st group
.811 Tamul or Tamil
.812 Malayalam
.813 Telinga or Telugu Andhra
.814 Kanarese or Kannada
.815 Tulu or Tuluva
.816 Kodagu
.82 2d group
.821 Kôta
.822 Touda or Toda
.823 Gônd
.824 Khond or Kou
.825 Râdjmahal
.826 Orâon

495 Asiatic
Excluding those provided for above
.1 Chinese
.4 Tibetan
.5 Himalayan
.6 Japanese
.7 Korean
.8 Burmese
.91 Siamese
.92 Annamite
.95 Mundari family
Language of the Kolarians

496 African
Excluding 493 Hamitic, 492.8 Ethiopic, etc. included in families above
.1 Language of Hottentots
.2 " " Bushmen
.3 " " Bantu group
Kafir dialects
.4 Negro dialects
.5 Nubian languages Language of Pouls

497 North American
Expansion being prepared

498 South American

499 Malay-Polynesian and other
.1 Negrito and Papuan
.11 Negrito
.12 Papuan
.2 Malay
.21 Tagala branch
.211 Philippine languages
.212 Formosan
.213 Language of Ladrones or Mariana ilands
.214 Malagasy
Madagascar
.22 Malay-Javanese branch
.221 Malay proper
.222 Javanese
.223 Bali
.224 Maduran
.225 Sundanese
Java
.226 Batak Sumatran
.227 Dyak
Borneo
.228 Makassar
Bugi, Alfourou
.5 Isolated ilands
.9 Other languages
.96 Caucasus
.961 Northern group
1 Lesghian group
2 Kistic or Chechenze group
3 Cherkesse or Circassian group
.962 Southern group
1 Georgian
2 Svanetian
3 Mingrelian
4 Lazistan

Pure Science

500 Science in general

501–509 all hav *Science in general* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in general. 0 in any clas number in any part of the classification shows the subject to be general, not specific

501 Philosofy, theories, utilities, etc.
502 Compends, outlines Ancient and medieval science
503 Dictionaries, cyclopedias
504 Essays, lectures, addresses
505 Periodicals, scientific magazines
506 Societies: transactions, etc.
507 Education, methods of teaching and study Museums
508 Polygrafy: collected works, extracts, etc.
.1 Extracts .2 .3 General scientific travels .4—.9 Travels an surveys (if general) divided geograficly like 940–999
509 History of science

510 Mathematics

Works on *Mathematics in general*, not limited to any one or two sections, a groupt by form of treatment like Science in general above; i. e.
510.1 Philosofy .2 Collections, compends .3 Dictionaries .4 Essays, papers tracts, letters .5 Periodicals .6 Societies .7 Education .8 Logarithmic and other tables, instruments .9 History

511 Arithmetic

See 372.7 Teaching elementary arithmetic

.1 **Systems of arithmetic**
See also 512.81 Theory of numbers
.2 **Notation and numeration Fundamental rules Abacus**
.3 **Prime numbers**
.4 **Fractions**
.5 **Analysis Permutation and combination**
.6 **Proportion and progression**
.61 Magic squares
.7 **Involution and evolution**
.8 **Mercantil rules Interest Alligation Mensuration Gaging**
.9 **Problems and tables**

512 Algebra

.1 **Systems of algebra**
.2 **Numeric equations Imaginary expressions**
.21 Equations, 1st to 4th degrees
.22 Higher numeric equations
.23 Indeterminate equations Diophantin analysis
.24 Imaginary expressions
.3 **Algebraic equations Maxima and minima**
.4 **Series Fractions Binomial theorem Taylor's theorem**
.5 **Combinatory analysis**
.6 **Proportion and progression**
.7 **Involution and evolution**
.8 **Higher algebra**
.81 Theory of numbers See 511.1 Systems of arithmetic
.82 Theory of equations Complex variable See also 517.8
.83 Determinants
.84 Symmetric functions
.85 Elimination: eliminants and discriminants
.86 Transformations Substitutions
.87 Quantics
.88 Invariants Covariants Contravariants
.89
.9 **Problems and tables**

513 Geometry

Plane and solid geometry bound together ar 513. Descriptiv geometry is 515
See also 744 Mathematic drawing

.1 **Plane geometry**
.11 Right lines
.12 Intersecting lines
.13 Parallel lines
.14 Triangles
.15 Quadrilaterals
.16 Other polygons
.17 Similarity
.18 Areas
.19 Maxima and minima
.2 **Curvs**
.21 Circles
.22 Conic sections
.23 Ellipse
.24 Hyperbola
.25 Parabola
.26 Higher plane curvs

513.3 Volumetric or solid geometry
- .31 Lines and planes
- .32 Intersecting planes
- .33 Parallel planes
- .34 Polyedrons
- .35 Pyramids
- .36 Prisms
- .37 Regular

.4 With curvd surfaces
- .41 Sphere
- .42 Cone
- 43 Cylinder

.5 Modern geometry
- .51 Points Lines Planes Duality
- .52 Transversals
- .53 Cones Conics Involution
- .54 Radical axes and centers of similitude
- .55 Poles and polars Reciprocal polars
- .56 Harmonic and anharmonic properties
- .57 Correspondence Correlation of figures
- .58 Quadric surfaces: spheroconics, curvs of double curvature
- .59 Surfaces of higher order: cubics

.6

.7

.8 Absolute or non-Euclidean geometry

.9 Problems

514 Trigonometry

.1 Trigonometric functions General formulas See 522.7

.2 Trigonometric series

.3 Exponential formulas

.4 Solution of trigonometric equations

.5 Plane trigonometry: solution of plane triangles; analytic

.6 Spheric trigonometry General formulas

.7 Solution of spheric triangles

.8 Differences of triangles, plane and spheric

.9 Problems

515 Descriptiv geometry and projections

See also 744 Mathematic drawing

.1 Orthogonal projection on 2 planes
- .11 Straight lines Planes
- .12 Single curvd lines
- .13 Double curvd lines
- .14 Single curvd surfaces
- .15 Double curvd surfaces
- .16 Surfaces of revolution
- .17 Warpt surfaces
- .18 Intersections of surfaces

.2 Isometric and analogous projections

.3 Oblique projection

.4 Conic projection

.5 Spheric projection See 526.8 Map projection
- .51 Orthografic
- .52 Globular
- .53 Stereografic
- .54 Polar
- .55 Gnomonic
- .56 Conic
- .57 Cylindric

.6 Perspectiv See also 742 Drawing
- .61 Plane Parallel Oblique Angular
  See also 750 for Scene painting
- .62 Cylindric
  See also 750 for Panorama painting
- .63 Shadows; natural and artificial light
- .64 Reflections
- .65 Circles, cylinders and spheres
- .66 Distortions and corrections
- .67 Human figure
- .68 New methods Special devices

.7 Shades and shadows

.8 Stereotomy
- .81 Stonecutting See also 693.12 Masonry; 730 Sculpture
- .82 Carpentry See also 694 Bilding
- .83 Stairbilding See also 694.8 Bilding; 729.39 Architectural design

516 Analytic geometry

.1 **Plane loci**
.11 Right lines
.12
.13
.14 Transformation of coordinates
.2 **Curvs**
.21
.22 Conic sections
.23 Ellipse
.24 Hyperbola
.25 Parabola
.26 Higher plane curvs
.3 **Loci in space**
.31 Right lines
.32 Planes
.33
.34 Transformation of coordinates
.4 **Curvd surfaces**
.41
.42 Conicoids or quadric surfaces
.43 Ellipsoid
.44 Hyperboloid
.45 Paraboloid
.46 Surfaces of higher order

CARTESIAN

.5 **Modern analytic geometry**
.51 Systems of coordinates
.52 Abridged notation
.53 Conics
.54 Higher plane curvs
.55 Poles and polars Reciprocal polars
.56 Harmonic and anharmonic properties
.57 Method of projection
.58 Quadric surfaces: spheroconics, curvs of double curvatures
.59 Surfaces of higher order: cubics
.6
.7
.8 **Quaternions: calculus of direction and position**
.9 **Problems**

517 Calculus

.1 **Infinitesimal Method of exhaustions**
Differential and Integral calculus, *bound together*, ar put here
.2 **Differential**
.21 Series
.22 Indeterminate forms
.23 Change of the independent variable
.24 Theory of plane curvs Curv tracing
.25
.26 Theory of curvd surfaces
.27 Maxima and minima
.28
.29 Problems
.3 **Integral**
.31 Formulas of reduction and integration
.32 Definit integrals Eulerian integrals
.33 Rectification Quadrature Cubature
.34 Multiple integrals
.35 Laplace's functions Bessel's and allied functions
.36 Elliptic and hyperelliptic functions Abelian functions
.37
.38 Differential and partial differential equations
.39 Problems and tables
.4 **Of variations**
.5 **Of functions**
.6 **Of finite differences**
.7 **Of operations**
.8 **Of imaginaries Complex variables** See also 512.82
.9 **Problems**

519 Probabilities

.1 **General principles Direct and inverse probabilities**
.2 **Mathematic and moral expectation**
.3 **Testimony: decisions of juries and tribunals**
.4 **Probability of future events deduced from experience**
.5 **Life contingencies: annuities, life insurance** See 368.3
.6 **Errors of observation Mean or average values**
.7
.8 **Method of least squares**
.9 **Problems**

520 Astronomy

520.1 Astrology, see 133.5 520.2 Compends 520.3 Dictionaries 520.4 Essays 520.5 Periodicals 520.6 Societies 520.7 Study and teaching of astronomy 520.8 Collections, etc. 520.9 History of astronomy
See also note under Pure science in general, 500–509

521 Theoretic astronomy

Mathematic investigation of celestial motions, specially of the Solar system
Motions of individual bodies ar clast under separate heds in 523

.1 **Celestial dynamics**
.11 General laws of equilibrium and motion See also 531.2
.12 Law of universal gravitation and motion
See also 531.51
.13 Problem of 3 bodies
.14 Figures of hevenly bodies
.15 Rotation of hevenly bodies

.2 **Geocentric and heliocentric place**
.21 Plane of orbit in space
.22 Position of orbit in its plane
.23 Position of body in its orbit
.24 Position of body in space
.25 Heliocentric longitude and latitude
.26 Geocentric longitude and latitude
.27 Variations of right ascension and declination
.28 Variations of longitude and latitude
.29

.3 **Orbits**
.31 Definitions of orbits
.32 Determination from 3 observations
.33 Determination from 4 observations
.34 Variation of elements of orbit
.35 Correction of approximate elements of orbit
.36 Application of method of least squares
.37 Kepler's problem
.38 Equation of center and radius vector
.39

.4 **Perturbations**
.41 Mutual action of planets
.42 Action of satellites
.43 Nonsphericity of planets
.44 Resisting medium

.5 **Theory of planets**
.6 **Theory of satellites**
.7 **Theory of comets**
.8 **Theory of eclipses**
.9 **Precession and nutation** See also 522.95–.96

522 Practical and spheric

.1 **Observatories**
.11 General plan, location
.12 Material and mechanism of dome, drum, etc.
.13 Transit bildings, wings, etc.
.14 High altitude observatories
.15 Portable
.19 History, reports and serial publications of observatories

.2 **Telescopes** See also 535.83 Optics
.21 Reflecting
.22 Refracting
.23 Eye piece and accessories
.24 Object glas
.25 Mounting, tube, etc.
.26 Equatorial mounting
.27 Transit mounting
.28 Observing chairs, etc.
.29 Famous telescopes

.3 **Meridional instruments**
.31 Finding meridian line
.32 Mural circles
.33 Meridian circles
.34 Transit: placing in position
.35 Collimation constant
.36 Level constant
.37 Azimuth constant
.38 Other constants, flexure, index error, etc.

.4 **Extra meridional instruments**
.41 Sextant and quadrant, reflecting circle, astrolabe
.42 Altazimuth
.43 Zenith telescope
.44 Transit out of meridian
.45 Heliometer
.46 Equatorial
.47 Prime vertical

.5 **Auxiliary instruments**
.51 Sidereal clock and chronometer
.52 Electrochronograf
.53 Micrometers
.54 Personal equation machine See 522.97
.55 For illumination
.56 For solar observation
.57 Artificial horizons
.58 Heliostat

522.6 **Auxiliary observations**

.61

.62 Photometry See 535.2 Optics

.63 Photografy See 535.85 Optics; 770 Photografy

.64

.65 Polarization See 535.5 Optics

.66

.67 Spectroscopy See also 535.84
Technic; application to astronomy and use with telescope. For results se- 523.37, 523.57, 523.67, 523.77, 523.87

.68

.69

.7 **Spheric astronomy** See also 514.6

.71 Celestial sphere Spheric coordinates

.72 Rectangular coordinates

.73 Transformation of coordinates

.74 Differential variations of coordinates

.75 Interpolation

.76 Meridian line Variation of compass

.77 Reduction of observations to the meridian

.78 Use of globes

.79

.9 **Corrections**

.91 Parallax

.92 Refraction See 535.3 Optics

.93 Semidiameter of celestial bodies

.94 Aberration

.95 Precession See 521.9

.96 Nutation " "

.97 Personal equation See 522.54

.98 Instrumental errors

.99

523 Descriptiv astronomy

.1 **Universe**

.11 Structure of universe

.12 Nebular hypothesis

.13 Plurality of worlds

.14 Space and its temperature

.15 Resisting medium

.16 Cosmic dust

.17 Repulsiv force

523.2 **Solar system**

.21 Distributiv laws of planets

.22

.23 Conjunctions and oppositions

.24 Motion of solar system in space

.25 Constitution of planetary system

.26 Stability of solar system Ecliptic

.27

.28 Orrery, planetarium, gyroscope, etc.
See 531.34 Rotation

.29 Zodiac

.3 **Moon**

.31 Constants: size, mass Distance and parallax

.32 Heat and light Phases

.33 Orbit and motions
Sidereal month, tropical, perigee and apogee, sun and earth's attraction, librations. See also 521.6 for Orbit

.34 Features of surface: mountains, plains, etc.

.35 Atmosphere

.36 Physical condition

.37 Spectrum

.38 Eclipses

.39 Charts, photografs, etc.

.4 **Planets**

.41 Mercury and intramercurial

.42 Venus

.43 Mars

.44 Asteroids

.45 Jupiter

.46 Saturn

.47 Uranus

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.57 Hydrometry Velocity
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541 Theoretic chemistry Physical chemistry

Modern chemic theories General properties of bodies from chemic point of view Composition Constitution Elements and compounds Affinity Formulas Nomenclature

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.2 Atomic theory

Ultimate constitution of matter. Nature and phases of ultimate particles: atoms, ions, anions, kations, electrons. Atomicity. Relationship of mass to chemic properties of bodies. Laws of chemic combination: weight, definit proportions, equivalence, multiple proportions. Laws of volume for gases. Simple or compound nature of chemic elements. Molecules. Atomic and molecular weights; methods of determination. Atomic and molecular volumes Laws fundamental to atomic theory; see also 541.9 Classification, periodic law, etc.

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.3 Physical chemistry

Borderland between physics and chemistry. Including densities in different phases; chemic affinity, statics and dynamics; thermochemistry and electrochemistry

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.32 Liquid state

See also physics, 532.1 Properties of liquids; 536.42 Liquefaction; 541.34 Solution

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.325 Special types of liquids: gelatinous liquids

.326 Inorganic liquids

.327 Organic liquids

.33 Gaseous state

Subdivide like 541.32. See also physics, 533.1 Properties of gases; 536.44 Vaporization

541.34 Solute state Solubility

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1 Solids 2 Liquids 3 Gases Absorption

.345 Solution types

3 **Colloid solutions Emulsions**

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.35 Photochemistry

Relation of light to chemic action, of polarized light to chemic structure, etc.

.36 Thermochemistry

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.37 Electrochemistry

.378 Magnetochemistry

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.39 Chemic dynamics, statics and equilibrium Affinity

Homogeneous and heterogeneous chemic equilibriums. Kinetic theory of chemic equilibriums (of Guldberg and Waage, Pfaundler, van't Hoff); thermodynamic theory (of Willard Gibbs, of Horstmann, of van't Hoff, of Duhem, etc) Reaction velocities. Accelerating and retarding influences. Catalysis. See also in physics 536.7 Thermodynamics and energetics

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.4 Various types of compounds

Acids, bases, salts, alloys

.5 Molecular types

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.7 Allotropy

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.2 Apparatus and manipulations For special apparatus see 542.3–.9

.21 Manipulations Arrangements Procedure

.22 Preparation of substances

Mechanic separation: trituration, pulverization, porphyrization; mortars and pestles, crushers, sifting and sivs. Disintegration by wetting heated mass. Levigation

.23 Laboratory receptacles and their accessories

For uses of receptacles see also various processes and operations

.231 Glas and quartz

Beakers, bottles, flasks, retorts, test tubes, funnels, adapters, glas rods and tubing

5 **Glas manipulation: blowing, grinding**

.232 Porcelain

Evaporating dishes, tubes, retorts. Refractory pottery: crucibles, plates

.233 Metallic

Containers made of platinum, silver, iron, nickel, aluminum, etc.

.24 Supports Fixt, adjustable, wood. Triangles, tripods, clamps

.25 Stoppers Glas, cork, rubber Corkborers

.26 Rubber tubing Luting and cements

.29 Other appliances

.3 Mesuring apparatus

.32 Determination of weights and density

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.35 Determination of volume

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.4 Heating Distillation

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.42 Heating with coal

Laboratory furnaces: trof, cupola, reverberatory, tubular, cupel, blast
Tube furnaces for organic analysis

.43 Heating with liquid fuels, etc. Lamps; special burners

.44 Heating with gas

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Fishtail and Bunsen burners; gas furnaces and grates; pressure regulators

.46 Indirect heating

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.47 Electric heating

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.51 Flame

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.52 Coloration of flame

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.53 Blowpipes

Varieties of blowpipes and how to use them
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.6 Aqueous and liquid treatment

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.61 Dissolving Solution

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Lowering the solidification point or surfusion

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.66 Decantation

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.67 Filtration and filters

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Filter presses

.68 Expression and presses Drying of press residues; drying machines

.69 Washing Continuous, automatic; decantation, wash bottles

.7 Gas manipulation

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.72 Gas production

.73 Gas collecting and decanting

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.74 Washing and dissolving gas

Wash bottles Apparatus for drying and absorbing gas

.75 Gas storage Gasometers, rubber bags

.76 Gas mesurement Graduated tubes, meters

.77 Rarefaction of gas

Pumps: air, vacuum, mercury; blowing engins, bellows, suction gasometers manometers; vacuum regulators; trompes
See also physics, 533.5 Air pumps

.78 Gas compression

Seald tubes and bulbs, bellows, compression pumps, gasholders

.79 Gas liquefaction and solidification

Faraday tubes Apparatus for expansion; of Thilorier; of Cailletet and Linde

542.8 **Electric and galvanic manipulations**

See also physics, 537.85 Applications of electricity to chemistry. Clas here only apparatus for preparing chemic substances, not apparatus for study of phenomena. For analytic apparatus see special substance under 543 or special process under 544 or 545

.9 **Other operations**

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543 Analysis

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.1 **Analysis of food and drink**

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.2 Dairy products Milk

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.12 Determination of bases

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.432 Radium See also 539.7 Radioactivity; 541.38 Radiochemistry
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.61 Yttrium
.62 Cerium
.63 Lanthanum
.64 Didymium
.642 Praseodymium
.643 Neodymium
.65 Erbium
.652 Ytterbium
.653 Terbium
.66 Aluminum
.67 Indium
.68 Gallium
.69 **Other metals of rare earths**
.691 Scandium
.692 Samarium or decipium
.694 Gadolinium
.695 Germanium
.696 Europium
.697 Thulium
.7 **Iron group**
Iron and chromium groups considerd together
.71 Manganese
.72 Iron
.73 Cobalt
.741 Nickel
.75 **Chromium group**
.76 Chromium
.77 Molybdenum
.78 Tungsten or wolfram
.791 Uranium See also 541.38
.8 **Tin group**
Tin and vanadium groups considerd together
.81 Tin
.82 Titanium
.83 Zirconium
.841 Thorium See also 541.38
.842 Actinium See also 541.38
.85 **Vanadium group**
.851 Vanadium
.86 Antimony
.87 Bismuth
.88 Tantalum
.891 Niobium or columbium
.892 Polonium See also 541.38

546.9 **Platinum group**
.91 Gold
.92 Platinum
.93 Iridium
.94 Osmium
.95 **Ruthenium group**
.96 Ruthenium
.97 Rhodium
.98 Palladium
.99 **False and putativ elements**
Arrange alfabeticly

547 Organic chemistry

.1 **Cyanogen and its compounds**
.2 **Hydrocarbons Fatty series**
For occurrence as minerals see 549.8
.21 Paraffins
.22 Olefins
.23 Acetylenes
.24 Valylene Dipropargyl, etc.
.25 **Aromatic series**
.26 Benzenes
.27 Diphenyl group
.28 Naphthalene Anthracene Phenanthrene
.29 Higher series

Subdivided like 547.2

.3 **Alcohols Phenols**
.4 **Ethers: simple, compound; haloid**
.5 **Aldehydes**
.6 **Ketones Quinones**
.7 **Acids: acid halids, acid anhydrids, sulfo-acids**
.8 **Nitroderivates: amins, compound ammoniums, amids, amic acids, azo-bodies, azoxy-bodies, hydrazo-bodies, diazo-bodies**
.9 **Compounds with metals**

548 Crystallografy

General; phenomena of a special mineral belong with that mineral; e.g cleavage of borates 549.73

.1 **Systems of crystallization**
.2 **Twin crystals Crystallin aggregations**
.3 **Cleavage Isomorfism Polymorfism**
.4 **Irregularities Internal imperfections**
.5 **Formation and growth of crystals**
.6 **Pseudomorfs**
.7 **Mathematic: mesurement of angles**
.8 **Physical**
.9 **Optical**

549 Mineralogy

.01 Philosofy, classification .02 Compends .03 Dictionaries .04 Essays, papers, etc. .05 Periodicals .06 Societies .07 Study and teaching, museums .08 Collectiv works .09 History

.1 **Determinativ Blowpiping**
See also 543.6 Methods of analysis of rocks and ores
See 542.53 Blowpipes and their manipulation. For other relations see Blowpiping in Relativ index following Tables
.2 **Nativ elements**
.3 **Sulfids, tellurids, selenids, arsenids, antimonids, bismuthids**
.4 **Compounds of chlorin, bromin, iodin, and fluorin**
.5 **Oxygen compounds: oxids**
.6 Silicates
.61 Anhydrous
.65 Hydrous
.7 Other ternary oxygen compounds
.71 Tantalates Columbates
.72 Phosphates Arsenates Vanadates Antimonates Nitrates
.73 Borates
.74 Tungstates Molybdates Chromates
.75 Anhydrous sulfates
.76 Hydrous sulfates
.77 Tellurates
.78 Carbonates
.79 Oxalates
.8 **Hydrocarbons**
Occurrence as minerals. For chemistry of hydrocarbons see 547.2; for economic geology see 553.2
.9 **Geografic distribution**
Divided like 940-999

550 Geology

550.1 Philosofy, theories, geologic time .2 Compends .3 Dictionaries .4 Essays, papers, tracts, letters .5 Periodicals .6 Societies .7 Study and teaching, museums .8 Collectiv works .9 History

551 Physical and dynamic geology

Including geophysics (physiografy, physical geografy) and geochemistry broadly treated; see also 551.94. For Cosmic geografy, see 523

.1 Structure of earth as a whole
- .11 Interior of earth
  - .12 Internal heat
- .13 Earth's crust
- .14 Conductivity of rocks

.2 Seismology
- .21 Volcanoes
- .22 Earthquakes
- .23 Hot springs, geysers
- .24 Oscillations of the earth's crust

.3 Erosion and deposition
- .31 Glaciers and glacial phenomena
  - .32 Moraines
  - .33 Transported materials, till
- .34 Icebergs
- .35 Aqueous erosion
  - .36 Coast changes
- .37 Aerial erosion

.4 Surface features of the earth

Physical geografy
- .41 Continents
- .42 Ilands
- .43 Mountains Valleys Orology
- .44 Caves
- .45 Plains
- .46 Oceans
  - .47 Ocean currents
- .48 Rivers Lakes
- .49 Springs Wells Ground water

Division of Oceans for use under .46 and .47
1 Atlantic North sea Baltic
2 Mediterranean Black sea
3 Gulf of Mexico Caribbean
4 Southern Atlantic
5 Pacific
6 Eastern Pacific or American coast
7 Indian Bay of Bengal Red sea
8 Arctic
9 Antarctic

.5 Meteorology Climate
- .51 Atmosferic currents Winds
- .52 Thermometry, heat

  For other relations see Heat, Temperature, in Relativ index following Tables
- .53 Hypsometry, elevations See 526.36–8 for methods
- .54 Barometry, pressure
- .55 Storms

  See also 537.4 Atmosferic electricity
- .57 Moisture: rainfall, flow of streams, floods
- .58 Prairies, forests, and deserts

551.6 **Metamorfism**

.7 Stratigrafic geology
- .71 Archean
- .72 Primary, paleozoic, Cambrian
  - .73 Silurian
    - .731 **Lower Silurian**
    - .732 **Upper Silurian**
  - .74 Devonian Old red sandstone
  - .75 Carboniferous
- .76 Secondary, mesozoic, triassic and Jurassic: lias, oolite
  - .77 Cretaceous
- .78 Tertiary, cenozoic
  - .781 Eocene, oligocene
  - .782 Miocene
  - .783 Pliocene
- .79 Quaternary Postpliocene Glacial
  - .791 Recent

.8 Structural geology
- .81 Stratification
- .82 Curvature and contortion
- .83 Ripple marks and sun cracks
- .84 Joints Cleavage Polarity in rocks
- .85 Dip Outcrop Strike
- .86 Anticlinal Synclinal
- .87 Faults and folds Dislocations
- .88 Veins Dykes Necks Bosses
- .89

.9 Agents of geologic work
- .91 Frost
- .92 Water
- .93 Atmosphere
- .94 Geochemistry

  Chemic changes: heat. See also note to 551
- .95 Animals
  - .96 Coral reefs
- .97 Plants
- .98 Segregation and concretion
- .99 Other agents

552 Lithology Petrografy Petrology

.1 **Igneous rocks**
.2 Volcanic rocks
.21 Lavas Scoria
.22 Volcanic ashes Volcanic tufa Tuff
.23 Obsidian Pumis Pitchstone
.24 Trachyte
.25 Rhyolite
.26 Andesite Dacite Phonolite
.27 Felsites
.28 Basalt
.29 Other volcanic rocks
.3 Plutonic rocks
.31 Porphyry Porphyrite
.32 Syenite
.33 Granit
.34 Diabase and gabbro
.35 Dolerite
.36 Diorite
.37 Norite
.38 Peridotite
.39 Other Plutonic rocks
.4 **Metamorfic rocks**
.41 Granits and syenites
.42 Gneiss
.43 Schists
.44 Slates Argillite Phyllite
.45 Quartzite Novaculite Itacolumite
.46 Marble Crystallin limestone
.47 Serpentine
.48 Chrysolitic rocks
.49 Other metamorfic rocks
.5 **Sedimentary rocks**
.51 Sandstone Conglomerate Sand Gravel
.52 Shale Clay Silt
.53 Gypsum Salt
.54 Limestone Marl Ooze
.55 Dolomite
.56 Oolite
.57 Infusorial or diatomaceous earth
.58 Glauconite Greensand
.59 Other sedimentary rocks
.6 **Meteorites**
.7 **Decay of rocks**

552.8 **Microscopic petrografy**
.81 Determination of rock minerals
.82 Rock structure

553 Economic geology

See also 622 Mining engineering

.1 **Ore deposits**
.11 Formation and structure
.12 Classification
.13 Superficial: placers
.14 Stratified: beds, etc.
.15 Unstratified
.16 **Disseminated thru eruptiv rocks**
.17 **Stockwerks Fahlbands Contacts**
.18 **Chambers and pockets Impregnations**
.19 **Mineral veins**
.2 **Carbon series**
.21 Peat
.22 Lignite and jet
.23 Cannel coal Bituminous shale
.24 Bituminous and semibituminous coals
.25 Anthracite and grafitic anthracite
.26 Grafite Plumbago
.27 Asfalt and asfaltic coals Ozocerite
.28 Petroleum Natural gas
.29 Fossil gums and resins

While the history of all other products goes in 553, history of metals is more useful in 669, Metallurgy

.3 **Ores of iron**
.4 **Ores of metals other than iron**
.41 Ores of gold
.42 Ores of silver
.43 Ores of copper
.44 Ores of led
.45 Ores of zinc and tin Mercury
.46 Ores of manganese and chromium
.47 Ores of antimony and arsenic
.48 Ores of nickel and cobalt
.49 Other metallic ores
.5 **Bilding stones**
.51 Marbles and limestones
.52 Granits and syenites
.53 Sandstones
.54 Slates
.55 Serpentines Soapstones
.56 Porphyries
.57 Trap
.58 Tufa Peperino
.59 Other bilding stones

553.6 **Earthy economic minerals**
.61 Fire clays Brick clays Potter's clays
.62 Sands
.63 Rock salt Gypsum
.64 Phosphates Apatite Guano See also 631.85
.65 Emery Corundum
.66 Hevy spar Sulfur
.67 Asbestos, etc.
.68 Limes and mineral cements
.69 Other earthy economic minerals
.7 **Mineral waters**
Divide general works with 0 geograficly like 930–999; e.g. Mineral waters of Germany, 553.7043
.71 Alkalin
.72 Salin
.73 Chalybeate, ironbearing
.74 Sulfuric
.75 Calcic
See also 551.23
.8 **Gems Ornamental stones**
.9 **Other economic minerals**

554 Geology of Europe 554-559 subdivided by countries like 940-999
555 Geology of Asia
556 Geology of Africa
557 Geology of North America
558 Geology of South America
559 Geology of Oceania Polar regions

560 **Paleontology** Use form divisions as in 550 and divide .9 geograficly like 930–999; e. g. Paleontology of England is 560.942 See also last paragraf of notes under 581.91
561 Plants 561 is subdivided like Botany, 580
562 Invertebrates 562–569 is subdivided like Zoology, 592–599
563 Protozoa Radiates
564 Mollusks
565 Articulates
566 Vertebrates
567 Fishes Batrachia
568 Reptils Birds
569 Mammals

570 **Biology Archeology**
570.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Study and teaching, museums; nature study .8 Collectiv works .9 History

571 Prehistoric archeology
For Customs, see 390 For Archeology of special countries, see 913
.1 **Paleolithic, or early stone age**
.11 Drift remains
.12 Cave men
.13 Remains of animals Shells
.14 Chipt stones
.15 Flint flakes Arrow heds Knives, etc.
.16 Other stone remains
.19 Other remains
.2 **Neolithic, or late stone age**
.21 Stone quarries
.22
.23 Remains of animals
.24 Polisht stones
.25 Sharpend stones: celts, tools, wepons
.26 Perforated stones: spindles, net sinkers, pipes
.27 Hollowd stones: mortars, cups, food vessels
.28 Other stone remains
.29 Other remains
.3 **Bronze age**
.31 Ancient copper and tin mining
.34 Bronze remains
.35 Tools Wepons, etc.
.37 Cups Vessels
.39 Other remains
.4 **Iron age**
.5 **Other remains**
.51 Implements of wood
.52 Implements of bone
.53 Basket work
.54 Textil fabrics
.55 Pottery
.56 Glas
.6
.7 **Rudiments of art Ornaments**
.71 Drawings
.72 Paint
.73 Sculptures
.74 Beads

571.8 **Dwellings**
.81 Natural caves
.82 Earth houses Pit dwellings Weems
.83 Lake dwellings Crannoges
.84 Cliff dwellings
.85 Pueblos
.86 Tents as dwellings
.9 **Mounds and monuments**
.91 Mounds and mound bilders
.92 Grave mounds
.93 Kitchen middens Shell banks
.94 Monoliths Cromlechs
.95 Circles Labyrinths
.96 Cairns
.97
.98
.99

572 Ethnology Anthropology

See also 136.4 Mental race caracteristics

.1 **Unity of human race**
.2 **Diversity of races**
.3 **Migrations of men**
.4 **Original home of man: Eden, Atlantis, etc.**
.5
.6
.7 **Savages: races divided by practises**
Clas description of savages of special country in 914–919; e. g. Australian bushmen 919.4
.8 **Races divided by language like 400**
.9 **Races divided by countries like 930–999**
Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 Natural history of man Somatology

.1 **Man's place in nature**
.2 **Origin of man**
.3 **Antiquity of man**
.4 **Influence of climate and surroundings**
.5 **Color in man**
.6 **Anthropometry**
.7 **Craniology**
.8 **Dwarfs and giants**
.9 **Monstrosities**
See also 611.012 Teratology; 613.91 Congenital defects; 617.3 Deformities

574 Homologies

575 Evolution

See also 213 Creation; 215 Religion and science; 239.8 Apologetics

.1 **Heredity**
For other relations see Heredity in Relativ index following Tables
.2 **Variation** See also 591.15 Physiologic zoology
.3 **Environment** See also 136.2 Mental; 573.4
.4 **Natural selection** **Survival of the fittest**
.5 **Sexual selection**
.6 **Development**
.7 **Degeneration**
.8 **Origin of species**
.9 **Origin of sexes** See also 591.36 Embryology

576 Origin and beginnings of life

[576–577 ar undergoing revision that will change some numbers and greatly enlarge them in a later edition]

.1 **Spontaneous generation**
.2 **Protoplasm** **Bioplasm**
.3 **Cells**
.4 **Beginnings of motion and sensation**
.5
.6

577 Properties of living matter

.1 **Chemic: difference between organic and inorganic**
.2 **Life: difference between ded and living matter**
.3 **Difference between vital and physical phenomena**
.4 **Conditions of life: moisture, temperature**
.5 **Difference between plants and animals**
.6 **Vital force**
.7 **Deth** See also 612.013
.8 **Sex in nature**
.9

578 Microscopy See also 535.82 Optics

.1 **Varieties of microscopes**
.2 **Optic parts**
.3 **Mechanical parts**
.4 **Accessory apparatus and management of microscope**
.5 Illuminating apparatus
.6 **Preparation and mounting of objects**
.7 **Special preparation and study of inorganic material**
.8 " **botanic material** See 581.8 Histology
.9 " **zoologic material** " 591.8

579 Collectors manuals

.1 **Preparing skeletons**
.2 **Preservativs and hardening fluids**
.3 **Injections**
.4 **Taxidermy**
.5 **Mounting specimens**
.6 **Collecting**
.611 Alluring; bait, light, etc.
.612 Hunting; nets, collecting bottle, etc.
.613 Killing
.614 Exchange Purchase
.615 Rearing
.616 Transporting
.7 **Arrangement of specimens in museums**
.71 Cabinets .72 Labels
.8 **Preservation of specimens**
.81 Museum pests .82 Pestifuges .83 Prevention of moisture .84 Retention of colors
.9

580 Botany

580.1 Philosofy, classification, nomenclature .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching, herbariums, botanic gardens .8 Collectiv works .9 History

581 Physiologic and structural botany

Subdivided where wisht like 591

.1 **Physiology**
.2 **Pathology Teratology**
.21 Diseases
.22 Teratology
.23 Parasites
.3 **Embryology Germination**
.4 **Morfology Comparativ anatomy**
.5 **Habits**
.6 **Economic**
.7 **Organografy Descriptiv anatomy**
.8 **Histology** See 578.8

.9 Geografic

.91 Distribution of plants

Subdivide .93–.99 like 930–999 Use .92 for ocean, marine flora, further subdivided like 551.46 and .47; e.g. Marine flora of Pacific ocean 581.925

This Geografic classification is to be used only for general works and cross references. 'Flora of North America' is put 581.97; but 'North American cryptogams' is clast 586 with a reference from 581.97, but North American phanerogams go with 581.97 becauz it so completely covers the subject

General works covering both Phanerogamia and Cryptogamia ar put under 580 as books covering Vertebrates and Invertebrates ar put under 590

In applying these numbers to Fossil plants, 561, note that one more figure must be used than in fossil animals. The Zoology numbers ar alredy given in the 3d place in Paleontology, e. g. 592 Invertebrates, 562 Fossil invertebrates, and so on to 599 Mammals, and 569 Fossil mammals. But in Fossil plants, 561, all 8 sections ar groupt together and the section number must be repeated. Fossil phanerogams ar 561.2 not 562, which is assignd to Invertebrate zoology as more important, Lichens ar 561.91, etc. In the same way the Fossil flora of North America is 561.197. i. e. the first 2 Botany figures, 58, ar changed to 561 to giv the corresponding Fossil botany number, while in zoology the only change is from 59 to 56 for first 2 figures, except in 591 which can not change to 561, which is assignd to Botany. The Fossil fauna of North America must therefore go among general works under 560.97

582 Phanerogamia See also 715 Trees; 634.9 Forestry

The subsections below ar taken from the recognized authority, Bentham and Hooker's *Genera plantarum*

583 Dicotyledonæ

.1 **Polypetalæ**
.11 **Ranales**
.111 Ranunculaceæ Crowfoot family
.112 Dilleniaceæ Rough leaf tree
.113 Calycanthaceæ Carolina allspice family
.114 Magnoliaceæ Magnolia family
.115 Anonaceæ Custard apple family

583.116		Menispermaceæ	Moonseed family
.117		Berberideæ	Barberry family
.118		Nymphæaceæ	Waterlily family
.12	**Parietales**		
.121		Sarraceniaceæ	Pitcher plant family
.122		Papaveraceæ	Poppy family
.123		Cruciferæ	Mustard family
.131		Capparideæ	Caper family
.133		Resedaceæ	Mignonette family
.134		Cistineæ	Rock rose family
.135		Violarieæ	Violet family
.137		Canellaceæ	Wild cinnamon family
.138		Bixineæ	Arnotto family
.14	**Polygalineæ**		
.141		Pittosporeæ	Hedge laurel family
.142		Tremandreæ	
.143		Polygaleæ	Milkwort family
.145		Vochysiaceæ	San Juan family
.15	**Caryophyllineæ**		
.151		Frankeniaceæ	
.152		Caryophylleæ	Pink family
.153		Sileneæ	Pink family proper
.154		Alsineæ	Chickweed family
.155		Polycarpeæ	Allseed family
.156		Portulaceæ	Purslane family
.158		Tamariscineæ	Tamarisk family
.16	**Guttiferales**		
.161		Elatineæ	Waterwort family
.162		Hypericineæ	St Johnswort family
.163		Guttiferæ	Balsam fig family
.166		Ternstrœmiaceæ	Tea or camellia family
.167		Dipterocarpeæ	Winged fruit tree family (camfor, gurjun-balsam, dammar)
.168		Chlænaceæ	
.17	**Malvales**	**Malvaceæ**	**Mallow family**
.18		Sterculiaceæ	Coco family
.19		Tiliaceæ	Linden family
.21	**Geraniales**		
.211		Linaceæ	Flax family
.213		Humiriaceæ	Bastard bullet tree
.214		Malpighiaceæ	Golden spoon tree
.221		Zygophylleæ	Lignum vitæ family
.223		Geraniaceæ	Geranium family
.23		Rutaceæ	Rue family
.241		Simarubeæ	Bitterwood family
.245		Ochnaceæ	Red ironwood
.247		Burseraceæ	Torchwood family
.251		Meliaceæ	Mahogany family
.255		Chailletiaceæ	
.26	**Olacales**		
.261		Olacineæ	Olacad family
.269		Ilicineæ	Holly family

583.27	**Celastrales**		
.271		Celastrineæ	Staff tree family
.274		Stackhousieæ	
.275		Rhamneæ	Buckthorn family
.279		Ampelideæ vitaceæ	Vine family
.28	**Sapindales**		
.281		Sapindaceæ	Soapberry family
.291		Sabiaceæ	
.292		Anacardiaceæ	Cashew family
.297		**Anomola**	
.298		Coriarieæ	
.299		Moringeæ	
.3	**Rosales**		
.31		Connaraceæ	
.32		Leguminosæ	Pulse family
.37		Rosaceæ	Rose family
.38		Saxifrageæ	Saxifrage family
.39		Crassulaceæ	Orpine family
.393		Droseraceæ	Sundew family
.394		Hamamelideæ	Witch hazel family
.396		Bruniaceæ	
.398		Halorageæ	Water-milfoil family
.4	**Myrtales**		
.411		Rhizophoreæ	Mangrove family
.414		Combretaceæ	Myrobalan family
.42		Myrtaceæ	Myrtle family
.43		Melastomaceæ	Meadow beauty family
.441		Lythrarieæ	Loosestrife family
.445		Onagrarieæ, œnotheras	Evening primrose family
.45	**Passiflorales**		
.451		Samydaceæ	
.453		Loaseæ	Loasa family
.455		Turneraceæ	
.456		Passifloreæ	Passion flower family
.461		Cucurbitaceæ	Gourd family
.468		Begoniaceæ	Begonia family
.469		Datisceæ	American false hemp, Asiatic bastard hemp
.47	**Ficoidales**		
.471		Cacteæ	Cactus family
.475		Ficoideæ	Sea purslane family
.48	**Umbellales**		
.481		Umbelliferæ	Parsley family
.491		Araliaceæ	Ginseng family
.497		Cornaceæ	Dogwood family
.5	**Gamopetalæ**		
.51	**Rubiales**	Caprifoliaceæ	Honeysuckle family
.52		Rubiaceæ	Madder family
.53	**Asterales**		
.531		Valerianeæ	Valerian family
.541		Dipsaceæ	Teasel family
.546		Calysereæ	
.55		Compositæ	Composit family
.57	**Campanales**	Stylidieæ	Stylewort family
.58		Goodenovieæ	
.59		Campanulaceæ	Bluebell family

583.6 **Ericales**
.61 Vacciniaceæ — Whortleberry family
.62 Ericaceæ — Heath family
.63 Monotropeæ — Indian-pipe family
.64 Epacrideæ — Epacris family
.65 Diapensiaceæ — Flowering moss, pyxie
.66 Lennoaceæ — Lennoa family
.67 **Primulales**
.671 Plumbagineæ — Leadenwort family
.672 Primulaceæ — Primrose family
.677 Myrsineæ — Marlberry
.68 **Ebenales**
.681 Sapotaceæ — Sapodilla family
.685 Ebenaceæ — Ebony family
.686 Styraceæ — Storax family
.7 **Gentianales**
.71 Oleaceæ — Olive family
.716 Salvadoraceæ — Salvadora family
.72 Apocynaceæ — Dogbane family
.73 Asclepiadeæ — Milkweed family
.74 Loganiaceæ — Logania family
.75 Gentianeæ — Gentian family
.76 **Polemoniales**
.761 Polemoniaceæ — Polemonium family
.764 Hydrophyllaceæ — Waterleaf family
.77 Boragineæ — Borage family
.78 Convolvulaceæ — Convolvulus family
.79 Solanaceæ — Nightshade family
.8 **Personales**
.81 Scrophularineæ — Figwort family
.821 Orobanchaceæ — Broomrape family
.825 Lentibularieæ — Bladderwort family
.829 Columelliaceæ
.83 Gesneraceæ
.84 Bignoniaceæ — Bignonia family
.85 Pedalineæ — Unicorn plant family
.86 Acanthaceæ — Acanthus family
.87 **Lamiales**
.871 Myoporineæ — Bastard sandalwood
.876 Selagineæ — Dwarf heath shrubs
.88 Verbenaceæ — Vervain family
.891 Labiatæ — Mint family
.899 **Ordo anomalus** Plantagineæ — Plantain family
.9 **Apetalæ**
.91 **Curvembryeæ**
.911 Nyctagineæ — Four o'clock family
.912 Illecebraceæ — Knotwort family
.913 Amarantaceæ — Amaranth family
.914 Chenopodiaceæ — Goosefoot family
.915 Phytolaccaceæ — Pokeweed family
.916 Batideæ
.917 Polygonaceæ — Buckwheat family

583.92 **Multiovulatæ aquaticæ**
.921 Podostemaceæ — Riverweed family
.922 **Multiovulatæ terrestres** Nepenthaceæ — Indian pitcher-plant family
.923 Cytinaceæ — Patmawort family
.924 Aristolochiaceæ — Birthwort family
.925 **Micrembryeæ** Piperaceæ — Pepper family
.926 Chloranthaceæ
.927 Myristiceæ — Nutmeg family
.928 Monimiaceæ
.93 **Daphnales**
.931 Laurineæ — Laurel family
.932 Proteaceæ
.933 Thymelæaceæ — Mezerum family
.934 Penæaceæ
.935 Elæagnaceæ — Oleaster family
.94 **Achlamydosporeæ**
.941 Loranthaceæ — Mistletoe family
.943 Santalaceæ — Sandalwood family
.947 Balanophoreæ
.95 **Unisexuales**
.951 Euphorbiaceæ — Spurge family
.961 Balanopseæ
.962 Urticaceæ — Nettle family
.971 Platanaceæ — Plane tree family
.972 Leitnerieæ — Corkwood
.973 Juglandeæ — Walnut family
.974 Myricaceæ — Sweet-gale family
.975 Casuarineæ — Beef wood
.976 Cupuliferæ — Oak family
.98 **Anomali**
.981 Salicineæ — Willow family
.983 Lacistemaceæ
.984 Empetraceæ — Crowberry family
.987 Ceratophylleæ — Hornwort family

584 Monocotyledonæ

.1 **Microspermeæ**
.11 Hydrocharideæ — Frog's bit family
.13 Burmanniaceæ — Burmannia family
.15 Orchideæ — Orchis family
.2 **Epigyneæ**
.21 Scitamineæ — Arrow root family
.22 Bromeliaceæ — Pineapple family
.23 Hæmodoraceæ — Bloodwort family
.24 Irideæ — Iris family
.25 Amaryllideæ — Amaryllis family
.26 Taccaceæ
.27 Dioscoreaceæ — Yam family

584.3 **Coronarieæ**
.31 Roxburghiaceæ
.32 Liliaceæ Lily family
.34 Pontederiaceæ Pickerel weed family
.35 Philydraceæ
.36 Xyrideæ Yellow-eyed gras family
.37 Mayaceæ Mayaca family
.38 Commelinaceæ Spiderwort family
.39 Rapateaceæ
.4 **Calycineæ**
.41 Flagellarieæ
.45 Juncaceæ Rush family
.5 Palmæ Palm family
.6 **Nudifloreæ**
.61 Pandaneæ Hala family
.62 Cyclanthaceæ
.63 Typhaceæ Cat-tail family
.64 Aroideæ Arum family
.68 Lemnaceæ Duckweed family
.7 **Apocarpeæ**
.71 Triurideæ
.72 Alismaceæ Water plantain family
.74 Naiadaceæ Pondweed family
.8 **Glumaceæ**
.81 Eriocauleæ Pipewort family
.82 Centrolepideæ
.83 Restiaceæ
.84 Cyperaceæ Sedge family
.9 Gramineæ Gras family

585 Gymnospermæ

.1 **Gnetaceæ** **Joint fir family**
Welwitschia mirabilis, gnetum climbers
.2 **Coniferæ** **Pine family**
Pine, hemlock, spruce, tamarak, fir, sequoia, cedar, juniper, yew
.9 **Cycadaceæ** **Cycad family**
Cycas, zamia

586 Cryptogamia

587 Pteridophyta

.1 **Isoeteæ** **Quillworts**
.2 **Equisetæ** **Horsetails**
.3 **Filicinæ** **Ferns**
.9 **Lycopodinæ** **Club mosses**

588 Bryophyta

.1 **Sphagna** **Peat mosses**
.2 **Musci** **Mosses**
.3 **Hepaticæ** **Liverworts**
.4 **Characeæ** **Stoneworts**

589 Thallophyta

.1 **Lichenes**
.11 **Basidiolichenes**
.15 **Ascolichenes**
.16 Angiocarpæ Lichens with coverd fruit
.17 Gymnocarpæ " " naked "
.18 Gelatinosæ Gelatinus lichens
.19 Byssaceæ Filamentus "

.2 **Fungi** **Mushrooms**
.21 **Carposporeæ**
.22 Basidiomycetes Smuts, rusts, mushrooms
.221 Gasteromycetes Stinkhorn fungi, puf ball, earth star
5 Phalloideæ Stinkhorn fungi, buzzard's nose
6 Hymenogastereæ Subterranean fungi
7 Lycoperdeæ Pufballs, devil's snuf box
8 Nidularieæ Bird's nest fungi
9 Sclerodermeæ Variety of pufball
.222 Hymenomycetes Mushrooms
Coral fungi (clavarieæ); fairy clubs; hedgehog fungi (hydneæ); gill-bearing fungi (agaricineæ); tubebearing fungi (polyporeæ)
.224 Hemibasidiomycetes Protobasidiomycetes
.225 Uredineæ Rusts
1 Auricularieæ Jew's ear
2 Tremelleæ Trembling fungi
.227 Ustilagineæ Smuts on corn, wheat, oats
.23 Ascomycetes Parasitic fungi
.231 Tuberaceæ Truffles
.233 Discomycetes
Pezizeæ; cup fungi
.235 Pyrenomycetes
Ergot, black knot (cherry, plum), black rot (grape), powdery mildew
.236 Hemiascomycetes Saccharomycetæ Protoascineæ
Yeast See also 589.91
.237 Exoasceæ Protodiscineæ Peach leaf curl, plum pocket, witch's broom of cherry
.238 Gymnoasceæ
.24 **Oosporeæ** **Deuteromycetes**
.241 Hyphomycetes Potato, peach, apricot scab
.242 Sphæropsidiaceæ Black fungi, cranberry scald
.243 Melanconieæ Anthracnose of grape, raspberry and blackberry; butternut blight, ripe rot, root rot of tobacco, violet, lupine; brown rot of stone fruits
.25 Phycomycetes Algælike fungi
.251 Oomycetes Eg spore fungi
.252 Peronosporeæ Downy mildews, blights on tobacco, grape vine, potato, cucumber
.26 Saprolegnieæ Watermolds

589.27 **Zygosporeæ** **Lowest fungi**
.28 Zygomycetes Moldlike saprophytes
.281 Mucorineæ Black mold
.282 Entomophthoreæ Fly fungi
.29 Myxomycetes, mycetozoa Slime mold
.3 **Algæ**
.4 **Carposporeæ**
.41 Florideæ Red algæ
.47 Coleochaeteæ Green algæ
5 **Oosporeæ**
.6 **Zygosporeæ**
.61 Conjugateæ Desmids, spirogyra, zygnema
.67 Zoosporeæ
.7 **Protophyta**
.8 **Chlorophyllaceæ** **Containing chlorophyll**
.9 **Achlorophyllaceæ** **Lacking chlorophyll**
.91 Saccharomycetes Yeast See also 589.236
.95 Schizomycetes Bacteria Microbes

For other relations see Bacteria in Relativ index following Tables

590 Zoology

590.1 Philosofy, classification .2 Compends .3 Dictionaries .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Study and teaching, zoologic gardens, aquaria, museums .8 Collectiv works .9 History

591 Physiologic zoology

.1 **Physiology**
.11 Circulation
.12 Respiration
.121 Nature
.122 Dermal
.123 Aquivascular
.125 Branchial
.126 Tracheal
.127 Pulmonary
.129 Exhalation of aqueous vapor
.13 Nutrition
.131 Acquisition of food
.132 Digestion of food
.133 Assimilation of food
.134 Growth
.135 Development
.136 Repair of waste
.137 Production of organic material
.138 Conditions of nutritiv activity
.139 Longevity, vitality
.14 Secretion and excretion
.141 Mucous and sebaceous
.142 Sericeous
.143 Digestiv: salivary, gastric, pancreatic
.144 Odoriferous, sweet, etc.
.145 Poisonous, gall formation, caprification
.146 Mammary, spermatic
.147 Lacrimal
.148 Biliary
.149 Urinary and fecal
.15 Variation See also 575.2 Evolution
.151 Polymorfic
.152 Geografic
.153 Heterofagic
.154 Polygoneutic
.155 Mimetic
.156 Sexual
.157 Colorational
.158 Hybrids
.159 Monstrosities

591.16 Generation
.161 Abiogenesis
.162 Parthenogenesis, neuters
.163 Metagenesis, pedogenesis, nurses
.165 Fission and gemmation
.166 Fecundation
.167 Hermaphrodites
.168 Vivipara
.169 Superfetation
.17 Histogenesis
.171 Development of sperm cells
.172 Development of germ cells, micropyle
.179 Reparation of wounds
.18 Nervous functions and sensation
.19 Physiologic chemistry
.2 Pathology
.3 Embryology
.33 Development of embryo
.34 Metamorphosis, larva, pupa, molting
.35 Hypermetamorphosis
.36 Production of sexes
See also 575.9 Origin of sexes
.4 Morfology Comparativ anatomy Homologies
.41 Circulatory organs
.42 Respiratory organs
.43 Nutritory organs
.44 Secretory and excretory organs
.45
.46 Generatory organs
.47 Motory organs
.48 Nervous system
.49 Integument Dermoskeleton Skeleton
.5 Habits and behavior
Including popular books; animal stories, except fiction
.51 Instinct Reason
.52 Abode Migration
.53 Food
.54 Seasons Hibernation
.55 Sociability
.56 Philoprogenitivness Breeding
.57 Means of protection Fascination
.58
.59 Other habits

591.6 Economic
.61 Usefulness
.62 In nature
.63 As food and medicin for man
.64 In chemistry and manufactures
.65 Noxiousness
.66 Offensiv animals
.67 Animals causing diseases [substances
.68 Injuring vegetable and animal products and inorganic
.69 Injuring living plants and animals Parasites
.7 Organografy Descriptiv anatomy
Subdivided like 591.4 Morfology
.8 Histology See also 578.9 Microscopic zoology
.9 Geografic distribution of animals
Subdivide like 930–999, uzing .92 for ocean, marine fauna, further subdivided like 551.46 and .47; e.g. Marine fauna of Mediterranean 591.922

592 Invertebrates

593 Protozoans Radiates

.1 Protozoans
.11 Rhizopoda
.12 Foraminifera
.13 Heliozoa
.14 Radiolaria Polycystina
.15 Infusoria
.16 Flagellata
.17 Ciliata
.18
.19 Gregarinidæ
.2 Radiates
.3 Cœlenterata Acalepha (old use of term, now limited to 593.73)
.4 Sponges Porifera Spongia
.5 Cnidaria
.6 Actinozoa Polyps Corals and sea anemones
.61 Rugosa Tetracorolla
.62 Alcyonaria Octocorolla
.63 Zoantharia Hexacorolla
.64 Antipatharia
.65 Actinaria
.66 Madreporaria
.7 Hydrozoa
.71 Hydromedusæ
.72 Siphonophora
.73 Acalepha
.74 Calycozoa
.76 Marsupialida
.77 Discophora Jelly fish

593.8 **Ctenophora Jelly fish**
.9 **Echinodermata**
.91 Crinoidea, sea lilies
.92 Asteroidea, star fish
.93 Stelleridea
.94 Ophiuridea
.95 Echinoidea, sea urchins
.96 Holothuroidea, sea cucumbers
.97 Pedata
.98 Apoda
.99 **Enteropneusta**

594 Mollusks

.1 **Lamellibranchiata Bivalvs**
.2 **Scaphopoda Toothshells**
.3 **Gastropoda Univalvs: snails, slugs** See also 632 Pests
.31 Amphineura Chitons
.32 Prosobranchia
.324 Aspidobranchia
.329 Pectinibranchia
.34 Heteropoda
.35 Opisthobranchia Sea slug, sea lemon
.36 Nudibranchia
.37 Tectibranchia Sea hare, bubble shell
.38 Pulmonata Snails
.4 **Pteropoda Wingd shells**
.5 **Cephalopoda Squids and cuttlefish**
.51 Tetrabranchia
.52 Nautilidae Nautilus
.53 Ammonites
.55 Dibranchia
.56 Octopoda Octopus, cuttlefish, squid
.58 Decapoda Ten-armd cephalopod, cuttlebone
.6 **Molluscoidea**
.7 **Bryozoa (Polyzoa) Sea mats**
.71 Gymnolaemata Sea mats
.711 Cyclostoma
.712 Ctenostomata
.713 Chilostomata
.72 Phylactolaemata Fresh water polyzoans
.73 Pterobranchia
.74 Entoprocta
.8 **Brachiopoda Lamp shells**

594.9 **Tunicata Sea grapes**
.91 Ascidia Sea squirt, sea pear, sea peach, sea potato
.92 **Copelatæ Taild ascidian**
.93 **Monascidiæ Sea squirt**
.94 **Synascidiæ Composit ascidian**
.95 **Pyrosoma Firebodies**
.96 Salpae Salp
.97 Doliolum Doliolid

595 Articulates

.1 **Vermes Worms** See also 632 Pests
.11 Helminthes Parasitic worms
.12 Platyhelminthes Flatworms
.121 Cestoda Tapeworm
.122 Trematoda Fluke
.123 Turbellarii Black planarian
.124 Nemertini Nemertean worm
.13 Nematodes Trichina, thred worm, pin worm
.131 Gordiacea Hairworm
.133 Acanthocephali Barbd-headed worm
.135 Chaetognathi
.14 Annelida Jointed worms
.15 Hirudinea Leeches
.16 Oligochaeta Earthworm, lugworm
.17 Polychaeta
.174 Gephyrea Spoon worm
.176 Phoronis Achinotrocha worm
.178 Myzostomida
.18 Rotifera Wheel animalcules
.185 Echinoderes
.188 Gastrotricha
.189 Dinophilus
.19 Orthonectida
.195 Dicyemida
.2 **Arthropoda**
.3 Crustacea
.31 Entomostraca Cyclops, shrimps, etc.
.315 **Pantopoda Sea spider**
.32 **Phyllopoda Leaf-footed crustaceans**
.323 Branchiopoda
.324 Cladocera Water flea
.33 **Ostracoda**
.34 **Copepoda** Copepod, cyclops
.345 Copepoda parasita Fish lice
.35 **Cirripedia Barnacles, etc.**

595.36 Malacostraca Sandbugs, crabs, lobsters, etc.
.37 **Arthrostraca**
.371 Amphipoda Sand flea
.372 Isopoda Sow bug, wood lice
.38 **Thoracostraca Crab, shrimp, prawn, lobster**
.381 Cumacea
.382 Stomapoda Sea mantle, glas crab
.383 Schizopoda Opossum shrimp
.384 Decapoda Lobster, crab, crayfish
1 Macrura Lobster, crayfish
2 Brachyura Crab
.39 Gigantostraca
.391 **Merostomata**
.392 **Xiphosura Horseshoe crab**
.393 **Trilobita Trilobites**
.4 Arachnida Spiders Scorpions Mites See also 632 Pests
.41 Linguatulida Tongue worm
.412 Tardigrada Water bear
.42 Acarina Mites
.43 Phalangida Harvest spider
.44 Araneida True spider
.45 Pedipalpi Whip scorpion
.46 Scorpiones Scorpion
.47 Pseudoscorpiones False scorpion
.48 Solifugae Weasel-spider
.5 Onychophora
.6 Myriopoda Centiped, etc. See also 632 Pests
.61 Chilognatha Milliped
.62 Chilopoda Centiped
.63 Symphyla
.64 Pauropoda
.7 Insecta Hexapoda insects See also 632 Pests
.709 Geografic distribution
Divide like 930-999
.71 Thysanura Bristletails, springtails, etc.
.711 Campodeidae
.713 Poduridae Snow flea, springtail
.715 Lepismatidae Bristletail
.72 Orthoptera Grashoppers, etc.
.721 Dermaptera Earwig
.722 Cursoria Cockroach
.723 Gressoria Walking insect
.724 Phasmidae Walking stick, leaf insect, walking leaf
.725 Mantidae Praying insect, camel insect
.726 Saltatoria Leaping or jumping insects
.727 Acrididae Locust
.728 Locustidae Green grashopper, katydid
.729 Gryllidae Cricket

595.73 Pseudoneuroptera Dragon-flies, white ants, etc.
.731 Thysanoptera Thrip
.732 Corrodentia Booklice, white ant, death watch
.733 Odonata Dragonfly, darning needle, mosquito hawk
.734 Ephemeridae Mayfly, dayfly, shadfly
.735 Perlidae Stone fly
.74 Neuroptera Caddis flies, etc.
.741 Planipennia Ant lion, scorpion fly
.742 Megaloptera Ant lion
.743 Sialidae Hill grammite fly
.744 Panorpidae Scorpion fly
.745 Trichoptera Caddis fly
.746 Strepsiptera
.75 Hemiptera Rhynchota Bugs, etc.
.751 Aptera Wingless insects
2 **Pediculidae True lice, crab lice, body lice, head lice**
4 **Mallophaga Bird lice**
.752 Phytophthires Plant lice, scale insects, flea lice
.753 Homoptera Afids, coccids, cicada, cuckoo-spit, etc
.754 Heteroptera Squash bug, stink bug, etc.
.76 Coleoptera Beetles
.761 Pentamera
.762 **Adephaga Whirligig, tiger beetle, water beetle, etc.**
.763 **Clavicornia Burying beetle, larder beetle**
.764 **Lamellicornia Dung beetle, June beetle, rose chafer**
.765 **Sternoxia Click beetle, wireworm**
.766 **Malacodermata Ship-timber beetle, powder-post beetle**
.767 Heteromera Blister beetle
.768 Tetramera Weevil, leaf beetle
.769 Trimera Lady-bird beetle
.77 Diptera Flies, etc.
.771 Nematocera Gnat, midge, mosquito, gallfly
.772 Brachycera Gadfly, botfly, fleshfly, afid
.774 Pupipara Lousefly, bee lice
.775 Aphaniptera Flea
.78 Lepidoptera Butterflies, moths
.781 Heterocera Moths
.782 Microlepidoptera Small lepidoptera: clothes moth, codling moth
.783 Macrolepidoptera Large lepidoptera
.785 **Geometrina Mesuring worm, canker worm**
.786 **Noctuina Owlet moth**
.787 **Bombycina Silkworm, gipsy moth, tent caterpillar**
.788 **Sphingina Sphinx moth**
.789 Rhopalocera Butterflies

595.79 Hymenoptera Bees, wasps, etc.
.791 Terebrantia Boring hymenoptera
.792 Entomophaga Boring insects
.793 Phytophaga Sawfly, horntail
.794 Aculeata Stinging hymenoptera
.795 Chrysididae Cuckoo wasp
.796 Formicidae Ant
.797 Fossoria Digger wasp
.798 Vespidae True wasp
.799 Apidae Bee

596 Vertebrates

597 Fishes Pisces

.09 Geografic distribution
Divide like 930–999, using .092 for oceans, further subdivided like 551.46 and .47; e. g. fishes of Gulf of Mexico 597.0923

.1 Pharyngobranchii Lancelet
Leptocardii, Amphioxus, Acraniata

.2 Marsipobranchii Lampreys
Cyclostomes

.3 Elasmobranchii Sharklike fishes
.31 Selachii Plagiostomes Notidani True sharks
.35 Tectospondyle Ray Rajidae Skate
.38 Holocephali Chimera

.4 Ganoidei Sturgeons, garpikes, etc. (covered with hard bony plates)
.41 Amiidae Bowfin
.44 Chondrostei Acipenseridae Sturgeon
.46 Crossopterygii Fringe-fin
.47 Euganoides Heterocerques Lepidostei Garpike
.48 Dipneusti Dipnoi Lung fish

.5 Teleostei True bony fishes
.53 Lophobranchii Pipe fish, sea horse
.54 Plectognathi File fish, globe fish, box fish
.55 Physostomi Salmon, herring, carp
.56 Anacanthini Cod, halibut, flounder
.57 Pharynogognathi Wrasses, parrot fish
.58 Acanthopterygii Perch, bass, mackerel

.6 Batrachia (Amphibia)
.7 Ophiomorpha
.8 Anura Toads, frogs
.9 Urodela Salamanders

598 Reptils Birds

.1 Reptils
.11 Lacertilia Lizards
.12 Ophidia Snakes
.121 Nonvenomus snakes
.126 Venomus snakes
.13 Chelonia Turtles
.14 Crocodilia Crocodiles
.15 Ichthyopterygia
.16 Sauropterygia
.17 Anomodontia
.18 Pterosauria
.19 Dinosauria

.2 Birds Aves
.29 Geografic distribution
Divide like 930–999
.3 Grallatores Waders
.31 Fulicariae
Coot, rail, sungrebe
.32 Alectorides
Seriema, sun bittern, trumpeter, kagu, crane, courlan
.33 Limicolae Shore birds
Plover, snipe, sand piper, stilt, oyster catcher
.34 Herodiones
Heron, bittern, stork, ibis, spoonbill, flamingo, umbrette
.4 Natatores Swimmers
.41 Anseres Lamellirostral swimmers
Duck, goose, swan, merganser, screamer, sheldrake
.42 Longipennes Long-wingd swimmers
Jaeger, skua, gull, tern, skimmer, albatross, petrel
.43 Steganopodes Totipalmate swimmers
Tropic bird, cormorant, pelican, darter, gannet, man-o'war bird
.44 Pygopodes Diving birds
Grebe, loon, auk, murre, puffin, penguin
.5 Cursores Ratitæ Runners
.51 Struthionidae Ostrich
.52 Rheidae Rhea
.53 Casuariidae Cassowary Dromaeidae Emu
.54 Apterygidae Kiwi Dinornithidae Moa
.6 Rasores Scratchers
.61 Gallinae Gallinaceus birds
True fowl, grouse, quail, hoatzin, fesant, turkey
.65 Columbae
Pigeon, dodo

598.7 Scansores Climbers
.71 Psittacidae
Parrot, macaw, parakeet, cockatoo, lory, kaka, nestor
.72 Picidae
Woodpecker, pufbird, barbet, jacamar, honey guide, wryneck, toucan
.73 Troganidae Trogan
.74 Cuculidae Cuckoo
.8 Insessores Perchers
.81 Acromyodi Singing passerin birds
Waxwing, thrush, finch, swallow, warbler, flycatcher, oriole, bobolink, sparrow
.86 Mesomyodi Non-singing passerin birds
Crow, raven, ant bird, broadbill
.89 Picariae Non-passerin birds
Kingfisher, roller, swift, humming bird
.9 Raptores Birds of prey
.91 Falconidae Falcon family Vulturidae Vulture
Hawk, falcon, eagle, buzzard
.97 Night raptores
Strigidae: owl

599 Mammals Mammalia
.1 **Monotremata Duckbild platypus, duckmole**
.2 **Marsupialia Kangaroos, opossums**
.3 **Placentalia Monodelphia**
.31 Edentata Armadillo, anteater, sloth
.32 Rodentia Rat, rabbit, woodchuck
.33 Insectivora Shrew, mole
.4 **Cheiroptera Bats**
.5 **Cetacea Sirenia Whales, etc.**
.51 Mysticete Balaenoid whale, whalebone whale
.53 Denticete, Odontocete Tootht whale
.55 Sirenia
.6 **Proboscidea Hyracoidea**
.61 Proboscidea Elefant, mammoth, mastodon
.62 Hyracoidea Hyrax
.7 **Ungulata Carnivora Domestic mammals** See also 636
Inclusion of an expansion in process of development proved impracticable for this edition
.8 **Quadrumana Apes Primates**
.81 Prosimiae Lemur
.82 Pitheciinae: couxio Cynopithecidae: monkey, baboon Catarrhina: gorilla, chimpanzee, orang Platyrrhini: American monkey
.88 Anthropomorpha Anthropoid ape
.9 **Bimana Man** See also 573 Nat. hist. of man; 610 Medicin

Useful Arts Applied Science

600 **Useful arts Applied science**
601 Filosofy Theories, etc.
602 Compends, outlines
603 Dictionaries, cyclopedias
604 Essays, lectures, addresses
605 Periodicals, magazines, reviews
606 Societies Fairs Exhibitions
Special exhibitions go with their topics. This is general only
607 Education Schools of technology
Divided like 940–999
608 Patents Inventions
609 History of useful arts in general
For its history, see each special department

610 Medicin

610.1 Filosofy, theories .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .71 Medical schools; divided like 940-999 .72 Medical education of women .73 Training schools for nurses .77 Medical museums .8 Collections .9 History of medicin

611 Anatomy

See also 591.4 Comparativ anatomy; 591.8 Zoologic histology

SUMMARY

611.01 Theory
.012 Teratology
.013 Embryology
.014 Anthropologic anatomy
.016 Paleontologic "
.018 Histology
.019 Comparativ anatomy
.1 Circulatory system
.2 Respiratory "
.3 Digestiv "
.4 Glandular and lymfatic system
.6 Genito-urinary system
.7 Motor and integumentary system
.8 Nervous system
.9 Regional anatomy

.01 **Theory**
.0111 Notion, definition, value
.0112 Classification, division
.0114 Terminology

.012 **Teratology Anomalies**
To be subdivided like revised 617.3 Orthopedic surgery

.013 **Ontogeny Embryology**
See also physiology, 612.6 Reproduction and development

1 Germinativ cells
11 **Sperm**
12 Spermatogenesis See also 611.63 Male genital organs
15 **Ovum**
16 Ovogenesis See also 611.65 Female genital organs
17 Maturation Corpus luteum
2 Copulation Fecundation Fertilization
See also Fecundation, in botany 581.166; in zoology 591.3
3 Germ layers
31 **Segmentation Cleavage Blastula**
314 Blastula
32 **Gastrula**
33 **Primitiv streak**
34 **Blastopore** Primitiv mouth
35 **Archenteron** Primitiv gut
36 **Neurenteric canal**
37 **Entoderm, entoblast, hypoblast or endoderm**
38 **Ectoderm, epiblast or ectoblast**
39 **Mesoderm or mesoblast**
395 Mesenchyme
4 Entodermic, entoblastic or hypoblastic organs
41 **Notochord**
5 Ectodermic, epiblastic or ectoblastic organs
Epidermal layer
51 **Neural furrows, folds and canal or medullary plates**
See also 611.8 Nervous system

611.0136 Mesodermic organs
61 **Protovertebrae Mesoblastic somites, or primitiv vertebrae**
64 **Somatopleure, body wall, or musculocutaneous plate**
Outer lamella of lateral plates
65 **Splanchnopleure, fibrous wall of alimentary canal, or gut fiber plate**
Inner lamella of lateral plates
66 **Coelom, pleuroperitoneal or body cavity**
See also 611.389 Coelom
68 **Blood or primitiv vessel wall**
See also 611.0185 Histology of blood
7 External form of embryo
8 Fetal appendages
81 **Vitellin sac**
82 **Allantois**
83 **Amnion**
835 Amniotic fluid
84 **Chorion**
85 **Placenta** Umbilic cord
9 Experimental embryology

.014 **Anthropologic anatomy**
See also 572 Anthropology

.016 **Paleontologic anatomy**
See also 560 Paleontology

.018 **Histology**
Microscopic structure of organs

1 Cells Cytology
See also 576.3 Cytology For special cells see tissues to which they belong
11 **Protoplasm**
13 **Nucleus**
15 **Cell division** See also 611.01331
16 **Centrosome**
18 **Cilia Cellular membrane**

2 Connectiv tissue
Connectiv, cartilage and bone tissue together known as 'supporting tissues'
21 **Connectiv tissue cells**
22 **Connectiv tissue fibers**
23 **Ground substance or matrix**
24 **Reticular and adenoid tissue**
Areolar or interstitial tissue Reticulum
25 **Mucous or gelatinous tissue Mesenchyme**
See also embryology, 611.013395 Mesenchyme
26 **Adipose or fat tissue**
27 **Elastic or yellow fibrous tissue**
28 **Fibrous or white fibrous tissue**
29 **Pigment and pigment cells**

3 Cartilaginous tissue
True or hyalin cartilage, cartilage cells or chondroblasts For Elastic, yellow fibrocartilage, or reticular cartilage see 611.01827; for Fibrocartilage, fibrous or white fibrocartilage see 611.01828
34 Perichondrium

611.0184 Bone or osseous tissue
41 **Bone cells**
Osteoblasts Osteoclasts Howship's lacunae Myeloplaques of Robin
43 **Ground substance or matrix**
Spongiosum, spongy substance, or cancellated or spongy bone
Compact substance
Structure: lacunae, canaliculi, lamellae, Haversian canals
Volkmann's canals
44 **Periosteum**
Osteogenetic layer or cells; fibers of Sharpey
46 **Bone marrow or medulla**
5 Blood
See also physiology, 612.11 Blood
For sperm, see 611.01311 and 612.616
57 **Lymf**
See also 612.42 Lymfatic system
6 Muscular tissue Sarcoplasm
61 **Smooth, unstriped, unstriated or involuntary muscle**
62 **Striped, striated or voluntary muscle**
Sarcolemma
63 **Cardiac muscle**
64 Histology of muscular contraction
7 Epithelial tissue
72 **Glandular system**
73 **Mucous membranes**
74 **Serous " Endothelia**
8 Nervous tissue
81 **General structure Tectology Neurone**
Regeneration
82 **Nerv cells**
Nissl's chromophilic bodies
83 **Prolongations and nerv fibers**
Cylinder-axis process; cylinder axis. Appendixes, varicosities
833 Neurilemma Schwann's sheath
834 Myelin Ranvier's nodes Medullary sheath
835 Adventitious sheath, perineurium Epineurium
Endoneurium
837 Dendrites
84 **Neuroglia** Ependymal cells, amyloids
86 **Terminations**
861 Motor terminations
866 Sensory "
.019 **Comparison with anatomy of lower animals**
Usually better clast in 591.4

Form divisions

.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs

611.07 Teaching Methods
.072 Laboratories Dissection
.077 Pedagogic methods
.078 Instruments Apparatus
.08 Polygrafy
.09 History
.1 **Circulatory system**
.11 Pericardium
.12 Hart
.122 Left hart
.123 Right hart
.124 **Ventricles**
2 Right 5 Left
.125 **Auricles**
2 Right 5 Left
.126 **Endocardium**
3 **Valvs**
4 Auriculoventricular valvs
42 Mitral or bicuspid valvs
46 Tricuspid valvs
5 Valvs of aorta and of pulmonary artery
Sinuses of Valsalva
52 Aortic valvs
56 Pulmonary or semilunar valvs
6 Valvs of right auricle
2 Eustachian 5 Coronary
.127 **Myocardium**
.13 Arteries
.131 **Pulmonary artery**
2 Right branch 5 Left branch
.132 **Aorta**
1 Aortic arch Ascending aorta
3 Coronary arteries
2 Right 5 Left
5 Innominate artery
.133 **Carotid arteries**
1 Common carotid
2 External "
21 Superior thyroid
22 Lingual
23 Facial, or external maxillary
24 Ascending pharyngeal
25 Posterior auricular
26 Occipital
27 Superficial temporal
28 Internal maxillary
281 Sphenopalatin arteries
289 Middle or great meningeal
3 Internal carotid
32 **Ophthalmic artery**
33 **Cerebral arteries, anterior and middle**
For posterior cerebral artery see 611.1349

611.134 **Subclavian arteries**
1 Axillary
Superior thoracic, acromiothoracic, long thoracic or external mammary, alar thoracic, subscapular, posterior and anterior circumflex
2 Brachial or humeral
Superior and inferior profunda, nutrient, anastomotica magna, muscular
3 Forearm arteries
31 Radial
35 Ulnar
4 Hand arteries
5 Internal mammary Superior epigastric
6 Costocervical trunk
7 Thyrocervical trunk
8 Posterior, or dorsal scapular, transversa colli
9 Vertebral Basilar, posterior cerebral, circle of Willis
.135 **Thoracic aorta and branches**
1 Parietal branches
4 Intercostal "
Subcostal, diaframatic, vas aberrans
5 Visceral branches
Bronchial, esofageal, pericardial, mediastinal
.136 **Abdominal aorta and branches**
1 Inferior frenic
2 Lumbar
3 Middle sacral; caudal
4 Celiac axis
Celiac mesenteric, umbilic mesenteric or omphalomesenterica
41 Hepatic
Pyloric, gastroduodenal, superior pancreaticoduodenal, right gastro-epiploic, cystic
42 Splenic, lienalis
Pancreatic, vasa brevia, left gastro-epiploic
43 Left gastric, gastric, or coronary gastric
5 Mesenteric
51 Superior mesenteric
Rami intestini tenuis, or branches of small intestin; inferior pancreaticoduodenal; middle, right and ileocolic; terminal and appendicular branches
52 Inferior mesenteric
Left colic, sigmoid, superior hemorrhoidal
6 Middle suprarenal
7 Renal
8 Spermatic
9 Ovarian
.137 **Iliac arteries**
1 Common iliac
2 Hypogastric, or internal iliac
3 Parietal branches
4 Lateral sacral
5 Obturator

611.1376 Gluteal
61 Superior gluteal
65 Inferior gluteal Sciatic
7 Visceral branches
71 Umbilic, superior vesical
72 Inferior vesical and deferential
73 Uterin and vaginal
74 Middle hemorrhoidal
75 Internal pudic
8 External iliac artery
81 **Inferior epigastric, or deep epigastric**
82 **Deep circumflex iliac**
83 **Femoral**
84 **Deep femoral, profunda femoris**
2 External circumflex 5 Internal circumflex
85 **Arteria genu suprema, or anastomotica magna**
86 **Popliteal**
87 **Anterior tibial**
9 Tibiofibular trunk, truncus tibioperoneus
91 **Posterior tibial**
92 **Peroneal**
93 **Arteries of foot**
94 Dorsalis pedis
Tarsal, metatarsal, dorsal interosseous, dorsalis hallucis
95 Plantar
.14 Veins
.141 **Pulmonary**
.142 **Cardiac or venae cordis**
.143 **Subintestinal, or fetal portal vein**
.144 **Cardinal**
.145 **Superior vena cava**
Innominate veins Veins of neck
1 Internal jugular vein
Thyroid veins
11 **Cerebral veins** **Sinuses of dura mater**
13 Emissary vein
15 **Superior ofthalmic**
16 **Inferior** "
17 **Facial**
2 External jugular
3 Posterior external jugular and vertebral
4 Subclavian and axillary
41 **Deep veins of upper extremity**
46 **Superficial veins of upper extremity**
2 Basilic 5 Cephalic
6 Azygos
7 Spinal veins

611.146 **Inferior vena cava**
1 Lumbar veins
2 Renal "
3 Suprarenal "
4 Hepatic "
5 Inferior frenic
6 Spermatic
Pampiniform or spermatic plexus
7 Ovarian
.147 **Iliac veins**
1 Hypogastric or internal iliac
Hemorrhoidal plexus
2 External iliac
3 Femoral Popliteal
33 Long, or internal saphenous
37 Tibial veins
38 Short, or external saphenous
39 Veins of foot
.149 **Portal vein**
1 Superior mesenteric
2 Inferior "
3 Ventricular coronary, gastric, or venae gastricae Pyloric
4 Splenic, or lienalis
5 Cystic
7 Fetal hepatic veins Omphalomesenteric
Ductus venosus Aranzii, or sinus venosus, large vein passing directly thru fetal liver
8 Umbilic
.15 Capillaries
.2 **Respiratory system**
.21 Nose
See also 611.86 Organs of smell
.211 **External nose**
.22 Larynx
.221 **Cartilages**
Epiglottis, thyroid, arytenoid, cuneiform, cornicular
.223 False vocal cords
.224 Ventricles
.225 **Cavity of larynx** **Glottis**
True vocal cords Rima glottidis or chink of glottis
.227 Ligaments
.229 **Muscles of larynx**
.23 Trachea and bronchi
.231 **Trachea**
.233 **Bronchi**
See also 611.24 below
.24 Lungs, or pulmones
.25 Pleura
.26 Diafram
.27 Mediastinum
.28 Gills
See comparativ anatomy, 591.42 Respiratory organs
.29 Other organs, including air bladder, swimming bladder See 591.42

611.3 **Digestiv system**
.31 Mouth, buccal cavity or cavum oris
.313 **Tung**
Papillae
.314 **Teeth**
.315 **Palate, palatum, or roof of mouth** **Soft palate, or velum pendulum palati** **Uvula**
.316 **Salivary and other glands of mouth**
1 Submaxillary and sublingual glands
2 Parotid glands Stenson's duct
.317 **Lips**
.318 **Cheeks**
.32 Pharynx Esofagus
.321 **Pharynx**
.322 **Tonsils**
.323 Faucial tonsils
.324 Pharyngeal or Luschka's tonsils
.325 Lingual, buccal or 4th tonsil
.326 Other tonsils: laryngeal, nasal
327 **Topografy or regions of pharynx**
1 Nasal or epipharynx
2 Oral, buccal, or meso pharynx
3 Laryngeal or hypo pharynx
4 Back
5 Sides
.329 **Esofagus**
1 Cervical 2 Thoracic section 3 Abdominal section, including diaframati
.33 Stomach
Gastric glands: true, oxyntic or peptic; pyloric; cardiac
.333 Cardia
.334 Pylorus
.335 Greater curvature, or lower convex surface
.336 Lesser " " upper concave
.34 Intestin
.341 **Small intestin**
2 Meckel's diverticulum
3 Peyer's patches, or tonsillae intestinales
4 Plicae circulares
5 Glands of Lieberkühn and solitary glands
342 Duodenum Brünner's glands
343 Jejunum
344 Ileum
.345 **Cecum**
1 Ileocecal valv
2 Vermiform appendix
.347 **Large intestin**
Including cecum Appendices epiploicae
348 Colon
2 Ascending
3 Transverse
4 Descending
349 Sigmoid flexure
.35 Rectum Anus
351 Rectum Houston's or rectal valves
352 Anus
353 Perineum See also 611.96

611.36 Liver
.361 Bile ducts Bile capillaries or canaliculi
.362 Hepatic duct
.366 Cystic duct Gall bladder
.367 Common bile duct, or ductus communis choledicus
Process and ampulla of Vater

.37 Pancreas
.373 Pancreatic duct, or canal of Wirsung
.375 Duct of Santorini
.376 Glandular portion
.377 Interalveolar cell-ilets, intertubular cell masses, ilands of Langerhans

.38 Peritoneum Mesentery Omentum Coelom
.381 Peritoneum
2 Parietal 5 Visceral
.382 Omentum, epiploon
Lesser or gastrohepatic, great or gastrocolic, gastrosplenic
.383 Mesentery
Transverse and sigmoid mesocolon; mesorectum; mesoappendix
.384 Retroperitoneal fossae
.389 Coelom or pleuroperitoneal cavity

.39 Adipose bodies

.4 Glandular and lymfatic system
Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.316, Salivary glands; 611.69, Mammary glands. But class here chromaffin tissue in general

.41 Spleen
.415 Malpighian bodies
.418 Capsule of spleen

.42 Lymfatic vessels or lymfatics and capillaries
For lymfatics of an organ or tissue, see name of organ or tissue
Lymfatic spaces

.421 Lymfatics by region
1 Hed
Face
3 Neck
4 Thorax
5 Abdomen
6 Pelvic region
7 Upper extremity
2 Arm 4 Forearm 6 Hand
8 Lower extremity
2 Thigh 4 Leg 6 Foot
9 Tail
.423 Receptaculum chyli or cistern of Pecquet
.424 Thoracic duct (left)
.425 Right lymfatic duct
.426 Lacteals
5 Villi

.43 Thymus
.435 Accessory thymus

.44 Thyroid gland
.445 Accessory or aberrent thyroids
.447 Parathyroids

.45 Suprarenal capsules or bodies
Accessory suprarenal capsules

611.46 Lymfatic glands
.461 Glands of hed
" " face
.462 Internal maxillary Submental
.463 Glands of neck
1 Suboccipital or occipital
2 Mastoid, retroauricular or postauricular
6 Retropharyngeal
7 Cervical or jugular
8 Subclavian
.464 Glands of thorax
1 Diaframatic
2 Mammary lymf
3 Intercostal
4 Mediastinal
.465 Abdominal lymf glands
1 Iliac and hypogastric: sacral, lumbar
2 Abdomino-aortic
21 Juxta-aortic
22 Preaortic: gastric, aplenic, hepatic
23 Retroaortic
4 Glands of small intestin: mesenteric
5 Glands of large intestin: colic, rectal
.467 Lymf glands of upper extremity
1 Axillary
2 Epitrochleal or supratrochleal and other glands
5 Pectoral
.468 Lymf glands of lower extremity
1 Inguinal
2 Femoral
3 Popliteal
4 Anterior tibial

.47 Carotid gland or body

.48 Coccygeal gland

.6 Genito-urinary system Brests

.61 Kidneys
Class here urinary organs in general
.615 Uriniferous tubules
.617 Ureter
.618 Pronephros
.619 Mesonephros

.62 Bladder Urethra
.621 Bladder
3 Urethral openings
.622 Ligaments: urachus
For pedicle of allantois see also embryology, 611.01382
.623 Urethra
For female urethra see 611.674
1 Prostatic part
Verumontanum or caput gallinaginis
Sinus pocularis or uterus masculinus
2 Membranous part
3 Spongy, cavernous or penial part
4 Lacunae Littré's glands
.627 Bulbo-urethral or Cowper's glands
.629 Urogenital sinus

611.63 Male genital organs
631 Testicles or testes
1 Seminiferous tubules
Straight tubules, tubuli recti or vasa recta; coni vasculosi or vasa efferentia
3 Tunics of testes: vaginalis, albuginea, vasculosa
5 Mediastinum testis or Highmore's body; rete testis of Haller or Haller's network
.632 Epididymis
.633 Appendixes of testes
Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies; paradidymis or organ of Giraldès
.634 Vas deferens
.635 Ejaculatory ducts
.636 Seminal vesicles
.637 Prostate
.638 Scrotum
Dartos
639 Spermatic cord
Infundibula; intercolumnar or spermatic and cremasteric fascia
.64 **Penis**
.641 Root
.642 Body Prepuce
.643 Glans penis, or acorn
.644 Meatus
.645 Corpora cavernosa
.646 Corpus spongiosum
.647 Bulb of urethra
.65 Female genital organs Adnexa
.651 Ovaries
1 Medullary substance Stroma
2 Graafian follicles
Capsule of ovum, membrana granulosa, discus proligerus
3 Cortical layer
.652 Corpus luteum or corpora lutea
See also embryology 611.01317
.656 Fallopian tubes
.66 **Uterus**
.662 Endometrium
.664 Cornua
.665 Body or parenchyma
.666 Neck, cervix
.667 Ligaments
For placenta see embryology, 611.01385 and gynecology 618.36
Broad or lateral
Round Canal of Nuck
4 Uterosacral and uterolumbar Pouch of Douglas
Posterior ligaments
6 Epoophoron, parovarium, or organ of Rosenmüller Gärtner's duct
Paroophoron
669 Müller's duct Oviducts of lower vertebrates
Class oviducts of lower vertebrates in 591.46 except in comparison with human organs
.67 **Vagina Vulva**
.671 Vagina
.672 Hymen Vestibulum
.673 Vulva
1 Mons veneris 2 Labia majora 3 Labia minora
.674 Female urethra
.675 Clitoris Bulbus vestibuli
.677 Bartholini's, or vulvo-vaginal glands
.69 **Brests**
.691 Nipple and areola Glands of Montgomery
.692 Acini, acinous glands
.693 Galactoforous or lactiferous ducts

611.7 **Motor and integumentary systems**
.71 Osteology Bones Skeleton
.711 **Spinal colum**
1 Cervical vertebrae
2 Atlas
3 Axis or epistropheus
5 Thoracic or dorsal vertebrae
6 Lumbar vertebrae
7 Sacrum or sacral vertebrae
8 Coccyx
.712 **Ribs Thorax**
5 Costal cartilages
.713 **Sternum or brest bone**
Menubrium; gladiolus; zyphoid or ensiform
.714 **Bones of hed Skull**
1 Calvaria or cerebral cranium
Sutures, fontanelles, supernumerary or Wormian bones
3 Base of cranium
6 Orbits
7 Nasal cavity Inferior conchae
.715 **Cranium, cranial bones**
1 Occipital
2 Sphenoid
3 Temporal
4 Parietal
5 Frontal
6 Ethmoid
7 Lacrimal
8 Nasal
9 Vomer
.716 **Bones of face or visceral cranium**
1 Maxillary, upper jaw or superior maxillary
2 Palate
3 Malar or zygomatic
4 Mandible, lower jaw or inferior maxillary
41 Alveolar limbus
43 Ramus of mandible
5 Hyoid
6 Skeleton branchiae Better clast in 591.4
.717 **Bones of upper extremity**
1 Scapula, shoulder blade
Shoulder girdle as a whole Acromion
2 Clavicle or collar bone
3 Coracoid process
4 Humerus
5 Radius
6 Ulna
7 Carpus, carpal bones or wrist bones
71 Scaphoid or navicular
72 Semilunar, or os lunatum
73 Cuneiform, or os triquetrum
74 Pisiform
75 Trapezium, or os multangulum majus
76 Trapezoid or " " minus
77 Os magnum, or os capitatum
78 Unciform or hook or os hamatum
79 Central
8 Metacarpus. metacarpal bones

611.7179 Phalanges of hand
91 Basilar or proximal phalanges
93 Middle phalanges
95 Ungual or distal phalanges
99 Sesamoid

.718 Bones of lower extremity
For pelvis see 611.96

1 Hip bone, or os coxae or innominatum
Acetabulum or cotyloid cavity
11 Ilium
12 Ischium
13 Pubis

4 Femur
45 Patella See also 611.7283 Knee joint and 611.983 Knee

5 Tibia

6 Fibula

7 Tarsus
71 Astragalus, ankle bone, or talus
73 Calcaneum, heel, or os calcis
75 Cuboid
76 Scaphoid or navicular
78 Cuneiform or wedge bones
Internal or first, middle or second, external or third cuneiform

8 Metatarsal bones

9 Phalanges of foot
91 Basilar or proximal phalanges
93 Middle or second "
95 Ungual or third "
99 Sesamoid bones

.72 Ligaments Joints

.721 Articulations of vertebrae and of cranium
1 Occipito-atlantal and occipito-axial
3 Intervertebral articulations
5 Atlanto-axial or atlo-axoid and atlanto-odontoid
6 Lumbosacral
7 Sacrococcygeal
8 Coccygeal

.722 Costovertebral articulations

.723 Costosternal, costochondral, chondrosternal, interchondral, intersternal

.724 Jaw joint, temporomandibular, temporomaxillary or mandible joint

.727 Articulations of upper extremity
1 Sternoclavicular joint and costoclavicular or rhomboid ligament
2 Articulations of shoulder
21 Shoulder joint
24 Acromioclavicular or scapuloclavicular joint Coracoclavicular and coracoacromial ligaments
3 Elbow joint
31 Humeroulnar joint
33 Humeroradial joint
34 Superior radioulnar or radioulnaris proximalis
4 Wrist joint
41 Inferior or distal radioulnar joint
44 Radiocarpal

611.7275 Intercarpal articulation
54 Middle carpal joints
6 Carpometacarpal articulations
7 Intermetacarpal "
8 Metacarpophalangeal "
9 Phalangeal or finger joints

.728 Articulations of lower extremity
1 Articulations of pelvis
Sacroiliac and pubic, or symphysis ossium pubis; sacrosciatic ligament or symphysis sacrococcygea
2 Hip joint, or articulo coxae
Iliofemoral, Y or Bigelow's ligament; ligamentum teres
3 Knee joint
31 Crucial or femorotibial ligaments
33 Semilunar fibrocartilages
34 Anterior or ligamentum patellae
38 Tibiofibular ligaments
4 Ankle joint
41 Inferior tibiofibular joint
44 Tibiotarsal ligaments
5 Intertarsal ligaments
51 Astragalocalcaneal, calcaneoastragaloid or talocalcaneum; astragaloscaphoid; calcaneoscaphoid or calcaneonavicular ligaments
53 Calcaneocuboid ligaments
54 Mediotarsal articulations
55 Cuboidcuneiform "
56 Scaphoidcuboid or cubonavicularis, scaphoidcuneiform or cuneonavicularis articulations
58 Intercuneiform articulations
6 Tarsometatarsal articulations
7 Intermetatarsal "
8 Metatarsophalangeal "
9 Toe joints

.729 Classes of joints
2 Synarthrosis or fixt joint
4 Amphiarthrosis or mixt joint
6 Diarthrosis or movable joint
61 Arthrodia or gliding joint
62 Condylarthrosis or knuckle joint
63 Enarthrosis or ball and socket join
64 Ginglymus or hinge joint
65 Trochoid or pivot joint

.73 Muscular system Myology

.731 Dorsal muscles
1 Spinohumeral or humerospinal muscles
11 Trapezius
12 Latissimus dorsi
13 Rhomboid
14 Levator scapulae
2 Spinocostal or serrati posteriores
3 Spinodorsal
Sacrospinalis, lumbosacral, erector spinae, transversalis cervicis
31 Iliocostal
36 Longissimus dorsi
4 Splenius and complexus

611.7315 Spinalis dorsi
6 Transversospinales
61 Semispinalis
65 Multifidus
68 Rotatores
7 Breves spinae
71 Interspinales
76 Intertransversarii
8 Oblique muscles of hed
9 Recti capitis posterior and lateralis

.732 Muscles of hed

See also 611.7318–9 and 611.7337–8

1 Platysma myoides
2 Occipitofrontalis or epicranial
3 Muscles of nose
Pyramidalis nasi, compressor nasi, compressor narium minor depressor alae nasi or myrtiform, dilatores nasi
4 Muscles of ear Attrahens, attollens, retrahens
5 Palpebral and orbital muscles of eye
Orbicularis palpebrarum, or sphincter of eyelids; corrugator supercilii; levator palpebrae; levator palpebrae superioris; tensor tarsi
See also 611.8461
6 Buccal muscles
Buccinator, orbicularis oris, levator anguli oris, levatores labii superioris, levator labii superioris alaeque nasi, zygomatic, levator labii inferioris, levator menti, depressor labii inferioris or quadratus menti; depressor angulae oris or triangularis menti; risorius, or Santorini's muscle
7 Muscles aiding mastication and deglutition
71 Masseter
72 Temporal
73 Pterygoid
75 Muscles of palate and pharynx
76 Palate
Levator palati, tensor palati, azygos uvulae, palatoglossus, palatopharyngeus, salpingopharyngeus
78 Pharynx
Inferior, superior and middle constrictors, stylopharyngeus

.733 Muscles of neck

1 Sterno-cleido-mastoid
2 " hyoid
3 Omohyoid
4 Sternothyroid
5 Thyrohyoid
6 Longus colli
7 Rectus capitis anticus major, or longus capitis
8 Rectus capitis anticus minor, or rectus capitis anterior
For rectus capitis lateralis see 611.7319
9 Scaleni: anticus, medius and posticus

.734 Hyoid muscles

Depressors of lower jaw or elevators of hyoid. For tung see 611.313
1 Digastric
4 Stylohyoid
6 Mylohyoid
8 Geniohyoid

611.735 Thoracic muscles

1 Pectoralis major
2 " minor
3 Subclavius
4 Levatores costarum
5 Serratus magnus or serratus anterior
6 Intercostal
7 Subcostal
8 Transversus thoracis or triangularis sterni

.736 Abdominal and coccygeal muscles

1 Rectus abdominis
2 Pyramidalis abdominis
3 Oblique abdominal
5 Cremaster
7 Transversalis or transversus abdominis
8 Quadratus lumborum
9 Coccygeal

.737 Muscles of upper extremity

1 Shoulder or axillary
11 Deltoid
12 Supraspinatus
13 Infraspinatus
14 Teres minor
15 Teres major
16 Subscapular
2 Arm
21 Biceps brachii, or biceps flexor cubiti
22 Coracobrachialis
23 Brachialis (anticus)
24 Triceps brachii, or triceps extensor cubit
25 Anconeus
3 Forearm
4 **Pronator muscles**
41 Pronator radii teres
45 " quadratus
5 **Flexors of forearm**
51 Flexor carpi radialis
52 Palmaris longus
53 Flexor carpi ulnaris
54 " digitorum sublimis
55 " " profundus
56 " pollicis longus
6 **Extensors and supinators**
61 Brachioradialis
62 Extensor carpi radialis longus
63 " " " brevis
64 " " ulnaris
65 Extensors of fingers, or extensores digitorum
66 Supinator
67 Abductor pollicis longus
68 Short and long extensors of thum, or extensores pollicis brevis et longus
69 Extensor of index finger, or extensor indicis proprius
7 Muscles of hand
71 Lumbricales
72 Palmaris brevis
73 Short abductor of thum, or opponens pollicis
Short flexor of thum, or flexor brevis pollicis. Adductor pollicis
76 Muscles of little finger
Abductor digiti quinti (or minimi) brevis; opponens digiti quinti short flexor of 5th or little finger, or flexor brevis digiti minimi
79 Interosseous muscles

611.738 **Muscles of lower extremity**
1 Hip and nates
11 Iliopsoas
12 Iliacus
13 Psoas major and minor
14 Gluteal
15 Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris
16 Piriformis
17 Obturator internus
18 Gemelli or gemini
19 Quadratus femoris
2 Thigh muscles
21 Sartorius
22 Quadriceps femoris or quadriceps extensor femoris
Rectus femoris, vastus externus, vastus internus and crureus or vastus intermedius
225 Articularis genu, or subcrureus
23 Pectineus
24 Adductors: longus, brevis, magnus and minimus
25 Gracilis
26 Obturator externus
27 Biceps femoris or biceps flexor cruris
28 Semitendinosus
29 Semimembranosus
3 Leg
4 **Anterior muscles**
41 Anterior tibial or tibialis anticus
42 Extensor digitorum longus
43 " hallucis " or proprius
46 Peronaeus tertius
5 **Other muscles of leg**
51 Peronaeus longus
52 " brevis
53 Gastrocnemius
54 Soleus, triceps surae
55 Plantaris
56 Popliteus
57 Posterior tibial
58 Flexor digitorum longus
59 " hallucis
7 Muscles of foot
8 **Back of foot**
Extensor brevis digitorum
Sole of foot or plantar region
Adductor hallucis (obliquus and transversus), adductor digiti minimi, abductor hallucis; flexor hallucis brevis, flexor digitorum brevis, flexor accessorius, flexor digiti minimi brevis, lumbricales, interosseous muscles
.739 Electric organs Better clast in comparativ anatomy
.74 Tendons Fasciae
May be divided like 611.73; e. g. Achilles tendon 611.74854
.75 Bursae Sheaths of tendons
.751 **Hed**
.752 **Neck**
.753 **Back**
.754 **Shoulder**
.757 **Upper extremity**
.758 **Lower** "
.76 Connectiv tissue See also 611.0182 Histology of connectiv tissue

611.77 Skin Glands of skin
.771 Cuticle, scarf skin or epidermis
Horny and Malpighian layers
Glands of skin
.772 Sebaceous
773 Sudoriferous or swet
.774 Ciliary glands
.775 Circumanal "
.776 Ceruminous "
.777 Corium, cutis vera, true skin or dermis
.778 Reticular and papillary layers
Pigmentation
5 Subcutaneous areolar tissue, tela subcutanea or paniculus adiposus
.779
.78 Hair, nails, scales, fethers, etc.
For teeth see 611.314 Fur, scales, fethers, horns, etc. better clast in comparativ anatomy
.781 Hair
.785 Scales
.786 Nails
.787 Fethers
.788 Horns
.8 Nervous system Sense organs
.81 Encephalon Brain
Mesurement Weight
.811 **General structure of brain and cerebrospinal axis**
.812 **Localizations**
.813 **Telencephalon, or endbrain Prosencephalon, or forebrain Hemisferes**
Longitudinal and transverse fissure
1 Pallium, brain mantle or cerebral cortex
11 **Frontal lobe**
Broca's convolutions
12 **Parietal lobe Central fissure, sulcus centralis, or Rolando's groove**
Opercula insulae
13 **Temporal or temporosphenoid lobe Fissure of Sylvius, or fissura cerebri lateralis**
14 **Limbic lobe Gyrus fornicatus**
Hippocampal gyre, or gyrus hippocampi Callosal gyre Dentate gyre, or fascia dentata hippocampi Fasciola Fimbria, taenia fornicis or taenia hippocampi Hippocampus major or cornu ammonis Dentate fissure, hippocampal sulcus, or subiculum cornu ammonis Callosomarginal fissure Amygdala, almond nucleus, or amygdaloid tubercle
15 **Occipital lobe**
Occipital or parieto-occipital fissure
16 **Paracentral gyre or lobule**
17 **Cuneus Calcarin fissure**
18 **Precuneus, or quadrate lobe**
19 **Insula, iland of Reil, central lobe, or gyri operti**
2 Striatum, striate body, or corpus striatum
Basal ganglion of hemisfere
21 **Caudatum, taild nucleus, or nucleus caudatus**
22 **Lenticula, lenticular nucleus, or nucleus lentiformis**
Globus pallidus, or pallidum, and putamen
23 **Claustrum**
25 **Tenia, taenia semicircularis, stria terminalis or corneae**

611.8133 Rhinencephalon or rhinencefal
Olfactory bulb tract, substantia perforata anterior, precribrum, etc. Broca's area, or parolfactoria
7 Centrum ovale majus (of Vieussens) Centrum semiovale Internal capsule
8 Paraceles or lateral ventricles
9 Callosum or corpus callosum Fornix
Septum pellucidum or lucidum, or septum Cavum septi pellucidi, 5th ventricle or pseudocele

.814 Diencephalon, diencefal, thalamencephalon or interbrain
1 Hypothalamus or subthalamic tegmental region
Nucleus of Luys or nucleus hypothalamicus
Postcommissure or posterior commissure
2 Corpora albicantia, albicans, or corpus mammillare
Bundle of Vicq-d'Azyr, or fasciculus thalamomammillaris
3 Hypophysis
Hypophysis cerebri, pituitary body or somatic brain
Tuber or tuber cinereum Infundibulum
4 Optic tract Optic chiasm or commissure
5 Epithalamus Pinea, pineal body, conarium or epiphysis Habenula, habena, or pedunculus conarii
6 Geniculate bodies, or geniculum Metathalamus
7 Thalamus or optic thalamus
Thalamic radiation: ansa peduncularis, ansa lenticularis
For Nissl's bodies see 611.01882
8 Third ventricle, or diacele
Porta or foramen of Monro, or foramen interventriculare

.815 Mesencephalon, midbrain or mesencefal
3 Quadrigeminum
Corpora or tubercula quadrigemina Quadrigeminal arms
4 Pedunculi or crura cerebri, crura or crus
41 Substantia nigra (Sömmering) or intercalatum
See also nucleus of Luys 611.8141
42 Foot of peduncle, basis or pes pedunculi, or crusta
43 Tegmentum
44 Red nucleus, nucleus ruber, or rubrum
5 Nuclei of oculomoto and trochlear nervs
6 Aqueduct of Sylvius, aqueductus cerebri, or mesocele

.816 Isthmus rhombencephali
3 Valv of Vieussens, or superior medullary velum
4 Superior cerebellar peduncles
Prepeduncles, brachium conjunctivum cerebelli, or crura ad cerebrum
Lemniscus: mesial and lateral fillets

611.817 Metencephalon or epencephalon, epencefal or hindbrain
Pons (Varolii)
1 Cerebellum
Lobes, fissures, valv of Tarinus, velum medullare posterius, or kilos
11 Cerebellar centers of gray matter Nuclei olivaris superiores: roof nuclei, dentate nuclei, dentatum, etc.
13 White substance of cerebellum Arbor vitae
15 Pons Varolii Tegument For reticula see 611.8226
3 Nuclei of trigeminus system
4 Nucleus motorius or motor nucleus of 5th nerv
41 Nucleus of spinal tract or sensory nucleus of 5th nerv
42
5 Nucleus or nidus of abducent nerv
6 " " " " facial nerv
68 Salivary nucleus
7 Cochlear nidi or nucleus of cochlear nerv
Ventral root of 8th nerv
76 Trapezium or trapezoid body
77 Nucleus of superior olivary body
78 Acoustic striae, striae acusticae or medullares
8 Vestibular nidi or nucleus of vestibular nerv
Dorsal root of 8th nerv

.818 Myelencephalon, metencefal, medulla, bulb or afterbrain, postoblongata or medulla oblongata
1 Pyramids Pyramidal decussation
2 Dorsal colum, posterior fibers, or funiculi dorsales
Arcuate fibers Restis or restiform body
Fasciculus of Rolando, cuneatus and gracilis
3 Lateral fibers Oliva or olivary bodies
Anterolateral ground bundle or fasciculus proprius anterolateralis: anterolateral cerebellar tract or fasciculus anterolateralis superficialis
4 Interolivary stratum, fillet or lemniscus
5 Fourth ventricle or metepicele
Metapore or foramen of Magendie Foramina of Luschka, Key and Retzius Obex Lingula Calamus scriptorius
6 Nucleus of glossopharyngeal system Solitary tract
7 Nuclei of vagus and accessory nervs
75 Ambiguous nucleus
78 Dorsal nucleus of vagus
9 Nucleus of hypoglossal system or hypoglossal nidus

.819 Meninges and cerebral meninges
1 Pia mater or pia
2 Telae choroideae, velum interpositum, choroid plexus
3 Arachnoid villi
Glandulae Pacchioni, Luschka's villi or granulations
4 Cisterns, or subarachnoid cisterns
5 Dura mater, or dura Tentorium and falx cerebelli
Falx cerebri

611.82 Spinal cord, or myel

.821 **Enlargements or intumescentia; general structure**

2 Cervical cord or myel, pars cervicalis
3 Thoracic or dorsal cord or myel, pars thoracalis
4 Lumbar cord or myel, pars lumbaris
5 Sacral cord
6 Terminal cone, or conus (medullaris) Filum Cauda (equina)
8 Grooves and fissures, sulci and fissurae

.822 **Gray substance or matter, entocinerea or cinerea cornua or colum** Gray

1 Anterior or ventral colum or cornu or funiculus anterior
2 Posterior or dorsal " " "
3 Clarke's colum, nucleus dorsalis or Stilling's nuclei
4 Gelatinosa or gelatinous matter, substantia cinerea gelatinosa Substantia spongiosa
6 Reticula or formatio reticularis

.823

.824 **White substance, or alba**

.825 Anterolateral colum

Anterior plus lateral colums

2 **Pyramidal tract or bundle or fasciculus cerebrospinalis**

Direct or uncrost tract, fasciculus cerebrospinalis anterior, or fasciculus

Crost pyramidal tract, or cerebrospinalis lateralis

3 Direct cerebellar tract, or dorsolateral cerebellar tract
4 Gower's tract, cerebellar path of anterior funiculus, or fasciculus anterolateralis superficialis ascendens or anterolateral ascending cerebellar tract
5 Fasciculus sulcomarginalis, or marginal tract of Spitzka and Lissauer
6 Lateral colum or anterolateral descending cerebellar tract or colum of Marchi and Lowenthal
7 Anterolateral ground bundle or fasciculus proprius anterolateralis
8 Anterior or ventral commissure

.826 Posterior or dorsal colums

1 Ascending fibers

Tracts of Burdach (posterolateral or cuneatus) and of Goll (posteromedian or gracilis) and fasciculus of Rolando

5 Descending fibers Comma tract in Burdach's colum
8 Radicular fibers
9 Posterior or dorsal commissure

.827 **Roots of nervs**

Works tracing nerv roots into spinal cord; for microscopic studies on nerv roots see 611.832

1 Anterior or ventral roots
2 Posterior " dorsal "

.828 **Spinal canal** **Ependyma or endyma**

Rhomboidal sinus Reissner's fibers

.829 **Spinal membranes, or meninges spinales**

1 Spinal pia mater
3 " arachnoid
5 " dura mater

611.83 Periferal nervous system Nervs

.831 **Cranial nervs and ganglia**

1 **Olfactory, or 1st cranial**
2 **Optic, or 2d cranial**
3 **Motoroculi, 3d cranial or oculomoto**
4 **Trochlear, pathetic, or 4th cranial**
5 **Trifacial, trigeminus, or 5th cranial**

Large or great superficial petrosal branch

52 Ofthalmic nerv of Willis
54 Superior maxillary nerv or maxillary nerv

Infraorbital branch

542 Mandibular or inferior maxillary
56 **Abducent, external motoroculi, oculomoto, or 6th cranial**
6 **Facial, 7th cranial nerv, or portio dura**

Other collateral branches

7 Terminal branches
73 Pars intermedia of Wrisberg (nervus intermedius) Chorda tympani
74 **Auditory, acoustic or 8th nerv**
75 Cochlear nerv or path, or central auditory path
8 Vestibular path or nerv
81 **Glossopharyngeal or 9th nerv**
85 **Pneumogastric, vagus or 10th nerv**
9 Parietal branches: auricular and lateral nervs
91 Pharyngeal branches
911 Superior cardiac nervs
914 Superior laryngeal nerv
915 Inferior or recurrent laryngeal nerv
916 Pulmonary branches
917 Esofageal and gastric branches
918 **Spinal accessory or 11th nerv**
919 **Hypoglossal or 12th nerv**
93

.832 **Spinal nervs**

Including in 5–6 microscopic studies on nerv roots. See also 611.827

1 Dorsal or posterior branches
2 Ventral or anterior "
5 Dorsal or posterior roots See also 611.8272
6 Ventral or anterior " See also 611.8271

.833 **Cervical nervs**

1 **Dorsal or posterior branches of cervical nervs** Small and large suboccipital nervs
2 **Ventral anterior branches of cervical nervs**
3 **Cervical plexus**

Large auricular nerv

32 Cutaneous nerv of neck
33 Supraclavicular nervs
34 Frenic or internal respiratory nerv of Bell
36 **Brachial plexus**
4 Supraclavicular part
41 Infraclavicular part
47 **Median nerv**
5 **Ulnar or cubital nerv**
6 **Radial nerv**
7 Musculo-spiral
8 **Musculocutaneous nerv**
9 **Antibrachii ulnaris**

Cutaneus brachii medialis, or nerv of Wrisberg

.834 **Thoracic nervs**

1 Posterior branches
2 Anterior " Intercostal nervs

611.835 **Lumbar and sacral nervs**
- 1 Posterior branches
- 2 Anterior "
- 3 Lumbosacral plexuses
  - 4 Lumbar plexus
    - 41 Great iliohypogastric nerv
    - 42 Ilioinguinal
    - 43 Genitofemoral or genitocrural
      - 44 Lateral or cutaneous nerv of thigh
    - 5 Femoral nerv or anterior crural nerv (femoralis)
      - 51 Middle cutaneous nerv
      - 52 Internal " "
      - 53 Muscular branches of posterior division of anterior crural nerv
      - 54 Long or internal saphenous nerv
    - 6 Obturator nerv
      - 61 Accessory obturator, or accessory anterior crural nerv of Winslow
      - 68 Lumbosacral cord
    - 7 Sacral or sciatic plexus
      - 71 Superior gluteal
      - 72 Inferior "
      - 73 Small sciatic nerv (cutaneus femoris posterior)
    - 8 Great sciatic nerv or ischiadicus
      - 81 External popliteal, or peronaeus communis or peroneal
        - 82 Sural or lateral cutaneous branch, or cutaneus surae lateralis
        - 84 Musculocutaneous or superficial peroneal
        - 86 Anterior tibial nerv or deep peroneal
      - 87 Internal popliteal or tibial
        - 88 Sural or plantar nervs
    - 9 Genital, pudic or pudendal plexus
      - 93 Collateral branches
      - 95 Pudic nerv

.836 **Coccygeal plexus** **Coccygeal nervs**

.839 **Sympathetic system**
- 1 Cervical and cephalic part
  - 11 Superior cervical ganglion
  - 12 Internal carotid nerv and plexus
    - Cavernous plexus
  - 13 External carotid nerv and plexus
  - 14 Common " plexus Superior cardiac nerv
  - 15 Middle " ganglion Middle " "
  - 16 Inferior cervical "
  - 17 " cardiac nerv Cardiac plexus
- 2 Thoracic part of gangliated cord
- 3 Abdominal and pelvic part of sympathetic system
  - 31 Solar or epigastric plexus or plexus coeliacus

.84 Eye Organ of vision

See also 611.7146 Orbit, including capsule of Ténon

.841 **Fibrous coats or tunics of eye**
- 1 Conjunctiva
- 3 Cornea
- 5 Sclerotic coat or sclera
  - Canal of Schlemm Spaces of Fontana

.842 **Vascular coats of eye** **Uveal tract**
- 1 Iris Pupil
- 3 Choroid
  - Tapetum
- 5 Ciliary body, muscle and processes

.843 **Retina**

Optic disc; macula lutea For optic nerv see 611.8315

611.844 **Refracting media**
- 1 Crystallin lens
- 2 Zonule of Zinn or zonula ciliaris
- 3 Vitreous humor Posterior chamber
  - 7 Hyaloid membrane Hyaloid or Stilling's or Cloquet's canal
    - Canal of Petit
  - 9 Aqueous humor Anterior chamber

.846 **Accessory organs of eye**
- 1 External muscles, musculi oculi
- 4 Tear apparatus
  - 7 Lacrimal gland
  - 8 " canals and puncta
  - 9 " sac and nasal duct

.847 **Eyelids or palpebrae**
- Canthi
- 5 Eyelashes or cilia
- 6 Eyebrows or supercilia

.85 Ear Organ of hearing

See also 611.8318 Auditory nerv

.851 **Internal ear**

.852 Membranous labyrinth
- 1 Cochlea, scala media, or ductus cochlearis
- 2 Organ of Corti, or Corti's fibers
- 4 Saccule
- 5 Utricle
- 6 Semicircular canals

.853 Osseous labyrinth
- Vestibule, semicircular canals, cochlea, modiolus or columella

.854 **Middle ear or tympanum**
- Atrium or tympanic cavity proper
  - 5 Attic
  - 7 Mastoid cells

.855 Membrana tympani, or drumhed

.856 Eustachian tube or tuba auditiva

.857 Bones of ear
- Malleus or hammer; incus or anvil; stapes or stirrup; muscles of tympanum, stapedius and tensor tympani

.858 **External ear**
- Meatus, pinna

.86 Organs of smell; olfactory organs

.87 " " taste

.88 " " touch and senses in general

.889 Organa lateralia

.89 Ganglions

Class ganglions here if separately treated

.891 **Cranial ganglions**
- 1 Semilunar ganglion or Gasserian
  - 52 Ciliary "
  - 54 Sphenopalatin or Meckel's ganglion
  - 56 Otic or Arnold's submaxillary ganglion
- 7 Geniculate ganglion
- 81 Spiral or Corti's ganglion
- 85 Vestibular ganglion
- 9 Petrosal and superior glossopharyngeal ganglion
- 91 Jugular and nodose ganglions

.892 Ganglions of spinal nervs

See also 611.832 Spinal nervs

.899 Sympathetic ganglions

For chromaffin tissue see 611.4

611.9 **Regional anatomy**
.91 Hed
.92 **Face**
.93 Neck
.94 Thorax
.942 **Front or pectoral**
.946 **Back or dorsal**
.95 Abdomen
.951 **Epigastric region**
.955 **Mesogastric "**
.957 **Hypogastric "**
.959 **Lumbar "**
.96 **Pelvic and perineal region**
.962 True pelvis
.964 False "
1 Inlet 2 Cavity 3 Outlet
.966 Position and size
.968 Difference between male and female pelvis
.97 Upper extremities
.971 **Shoulder or axilla**
.972 **Arm**
.973 **Elbow**
.974 **Forearm**
.975 **Wrist**
.976 **Hand**
.977 Fingers
.98 Lower extremities
.981 **Hip Nates Sulcus inguinalis**
1 Hip
2 Nates
3 Sulcus inguinalis
4 Inguinal canal
5 Crural or femoral canal
.982 **Thigh**
.983 **Knee Popliteal space**
.984 **Leg**
.985 **Ankle**
.986 **Foot**
.987 Toes
.99 **Tail**

612 Physiology

SUMMARY

612.013 Vitalism
.014 Cells and organisms
.015 Physiologic chemistry
.1 Blood and circulatory system
.2 Respiration
.3 Digestion
.4 Glandular system
.5 Animal heat
.6 Reproduction Development
.7 Motor and vocal apparatus
.8 Nervous system

.01 **General theory of physiology**
.0111 Notion, definition, nature
.0112 Classification, division
.0114 Terminology, notation, symbols
.0118 Methods
.012 Physiologic theories and generalities
.013 **On the nature of life and deth Vitalism**
This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the heds under this number are better clast in their broader relations; i. e. see 577.2 for the nature of life; 577.7 for the nature of deth; 612.67 for deth as a stage in vital history
1 Signs of real deth See 577.7
3 Experiments on executed persons
4 Tneories of life and the soul Vitalism
See metaphysics, 128
5 Comparisons of animals and plants See 577.5
6 Organism and inanimate matter See 577.1
7 Vital energy See 577.6
8 Experiments on surviving organs See 577.6
.014 **General physiology of cells and organisms**
See 576 and note under 612.013
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11 **Aerobic and anaerobic cells**
2 Physiologic morfology of cells
21 **Functions of protoplasm**
22 " " **nucleus**
24 " " **chromosome bodies Chromatolysis**
26 " " **centrosome**
3 Physiologic characteristics of cells
31 Irritability in general
32 Fatigue
4 Influence of environment on cells and organisms
Mesology
41 **Effects of barometric pressure**
See also 612.27 Influence of barometric pressure on living beings
42 **Action of electricity Electrophysiology**
421 Electrophysiologic technic
See also 615.84 Electrotherapy
2 Static electricity
4 Dynamic electricity
5 Alternating currents
7 Electric mesurements
8 Special instruments
1 Electrodes 2 Telefone, microfone 6 Galvanometers
422 **Electric resistance Conductibility**

611.9 Regional anatomy
- .91 Hed
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      - 7 Special instruments
      - 8 1 Electrodes 2 Telefone, microfone 6 Galvanometers
    - 422 **Electric resistance Conductibility**

612.014 423 Electric fenomena of organisms
For electric fenomena of muscles see 612.743, of nervs and muscles see 612.813
1 Theory of electric fenomena
2 Negativ variation
3 Electrotonus
4 Electric fenomena of tissues in repose and in action
424 Action of electricity on organisms
Everything concerning effect of electricity on function may be clast here by adding 0 and dividing like 612; e. g. action of electricity on red corpuscles 612.0144240111, as .111 is the subdivision of 612 meaning red corpuscles. Action of electricity on bile 612.0144240357, as .357 means bile
2 Action of static electricity
3 " " atmosferic "
4 " " dynamic "
5 " " alternating currents
425 Deth by electric shock; by lightning
426 Magnetic action
427 Galvanotropism
428 Electrotherapy from physiologic point of view
43 **Action of heat and cold** See also 612.59
44 **Action of light** See also 612.843
445 Fosforescence
447 Heliotropism Fototropism
See also 615.831 Fototherapy
45 **Action of sound and its vibrations**
See also 612.85876
46 **Poisons and chemic substances**
Poisons and definit chemic substances ar preferably clast in 615.7, general toxicology in 615.9. This number is for topics of special physiologic interest
461 Effects of water
1 Reviviscent animals
2 Hydrations
3 Quantity of water in organisms and tissues
462 Physicochemic forces
1 Osmosis
2 Molecular concentration in organic fluids Cryoscopy
Subdivisible with 0 like 612; e. g. Cryoscopy of gastric juice 612.01446222032
3 Relation between secretion and osmotic pressure
4 Relation between osmosis and electric action: ions
5 Colloid substances: coagulation, agglutination, etc.
See also 612.398133 Theory of histologic conservation
6 Reaction, acid or alkalin
7 Viscosity
8 Superficial tension
9 Other physicochemic forces
463 Action of mineral salts on organisms
464 " " air, normal and abnormal; of oxygen and ozone
465 " " anesthetics
466 " " antiseptics
467 Chemotaxis Chemotropism
469 Action of other chemic forces
47 **Action of mechanical forces**
477 Geotropism
478 Thigmotaxis
48 **Other physical forces**
481 Various rays
1 Physiologic effect of X rays
To express effect of X rays on a specific organ or tissue, ad 0 and subdivide like 612; e. g. effect of X rays on sight 612.0144811084
4 Effect on lower organisms
482 Effect of radioactiv substances; Becquerel rays
483 Production and action of N rays

612.015 **Physiologic chemistry in general**
1 Ferments
11 **Oxydants Reducing ferments**
12 **Hydrolytic**
13 **Proteolytic**
14 **Lipolytic**
15 **Amylolytic and sucroclastic**
16 **Glycolytic**
161 Alcoholic
2 Normal composition of the body and its products
See also 612.3926, 612.396–.398
21 **Extracts of organs**
3 Metabolism
31 **Of mineral substances**
See also 612.3926
32 **Of carbon**
See also 612.22
33 **Of nitrogen**
See also 612.46123
34 **Of substances foren to the normal organism**
Elimination of poisons
Most material will be clast under 615.7 and its subdivisions
See also special organs
346 Metabolism of nonnitrogenous substances
347 " crystallizable nitrogenous substances
348 " albuminoids
349 after deth Autolysis
Subdivisable with 0 like 612; e. g. autolysis of the liver 612.015349035
35 **Influence of temperature on metabolism**
See also 612.59
36 **Reductions, hydrations and syntheses in organisms**
37 **Influence of other agents on metabolism**
38 **Influence of nervous system on metabolism**
39 **Metabolism in disease**
4 Staining substances and pigments
.016 **Means of attack and defense**
Comparativ physiology; usually better clast in 591.57
1 Autotomy
2 Mimicry
3 Physiology of parasites
.019 **Comparativ physiology**
May be subdivided like 590 to signify kind of animal; e. g. Reptils being 598.1, comparison of reptil and human physiology is 612.01981 Class here only books written distinctly from physiologist's point of view. Other works on comparativ zoology are better in 591.1

Form divisions

.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs
.07 Study and teaching
.077 Vivisection
See also ethics, 179.4, and laws, 614.22
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612.1 Blood and circulatory system
- .109 History of circulation of blood
- .11 General properties of blood
- .111 Red corpuscles
  - 1 Chemic composition
    - 11 Hemoglobin and oxyhemoglobin
    - 14 Carboxyhemoglobin
      - Action of CO on blood, carbon monoxid hemoglobin
    - 15 Spectroscopy of blood
    - 16 Methemoglobin and derivates
      - Hematin or hematoxylin, hematoidin, globin, hemin or Teichmann's crystals, hematochromogen, hematoporphyrin
    - 17 Isotony of corpuscles Osmotic permeability
    - 19 Chemic substances in corpuscles
      - Lecithin, urea, cholesterin, etc.
  - 2 Number of corpuscles
    - Technic of counting
    - 22 Volume of corpuscles
  - 3 Formation of corpuscles
    - See also 612.119 Sanguification
  - 4 Action of poisons on corpuscles
    - See also 612.11114 Action of CO on blood
    - 44 Agglutinating substances
    - 45 Hemolytic substances
  - 6 Corpuscles in disease
  - 7 Other red corpuscles than erythrocytes
  - 8 Coloring matters of invertebrate blood
    - e. g. hemocyanin
  - 9 Other similar coloring matters
    - e. g. chlorophyl and derivates: phylloerytrin
- .112 Leucocytes and ameboid cells
  - 1 Chemistry of leucocytes
    - 11 Ferments of leucocytes
      - Influence of leucocytes (lymphocytes) on digestion
  - 2 Movements and irritability of leucocytes
    - 3 Phagocytosis
    - 4 Diapedesis
  - 5 Effect on coagulation of blood
  - 6 In disease and intoxications Leucocytosis
    - For digestiv leucocytosis see 612.11211
  - 7 Counting and its technic
  - 8 Numeric relations of white and red corpuscles
  - 9 Varieties Physiologic morfology
- .113 Arterial blood
- .114 Venous "
- .115 Coagulation of blood
  - 1 Fibrin Fibrinoplastin
    - 11 Composition and chemic properties
    - 12 Fibrogenous and fibrinoplastic ferments Fibrinogen Thrombin
    - 13 Estimating quantity of fibrin
  - 3 Substances modifying coagulation
    - 31 Retarding agents
    - 35 Accelerating agents

- 612.116 Total quantity of blood
  - 2 Hemorrhage Anemia
    - Subdivisable with o like 612; e. g. physiologic influence of anemia on kidneys 612.1162046 For pathologic effect see 616.243. 618.54
    - 21 Hemostasia
  - 3 Transfusion
    - Effect on system receiving transfused blood
- .118 Physical and biologic properties of blood
  - 1 Physical
    - 11 Osmotic pressure
      - See also 612.11117 Osmotic permeability
    - 12 Effect of various injections
    - 14 Viscosity
    - 17 Cryoscopy of blood
      - Method of studying isotony and similar phenomena by relativ freezing points of solutions
  - 2 Biologic properties
    - 21 Toxins and antitoxins
      - Physiologic effect For chemic action see 612.3988 May be used for those not produced by the blood, e. g. cytotoxins
      - 211 Theory of toxic and antitoxic action
      - 22 Toxic and antitoxic action of blood
        - Limited to blood toxins and antitoxins. See also 612.3988
      - 221 Specific reaction of blood and albuminoids
        - Blood in legal medicin
      - 222 Natural immunity
      - 223 Effect of blood on bacteria
        - Class here physiologic aspect of opsonic theory, opsonins and opsonic index See also 615.37 Serotherapy
    - 24 Various toxic and antitoxic substances of blood
    - 7 Varieties of blood in different parts of body
- .119 Hematopoiesis or sanguification
  - See also 612.1113 Formation of red corpuscles
- .12 Chemic properties of blood
- .121 Reaction and density
  - Color reaction Specific gravity
- .122 Carbohydrates in blood
  - 1 Glucose 2 Glycogen 3 Glycolytic ferments
- .123 Fats, lipoids, cholesterin, saponin, glycerin
- .124 Albumins and albuminoids Uncrystallizable nitrogen compounds
  - See also 612.39812 Blood serum
- .125 Crystallizable nitrogen compounds
  - 1 Staining substances of serum
- .126 Mineral salts
- .127 Blood gases
  - 1 Technic for determining quantity 2 Oxygen 3 Carbonic acid
- .128 Ferments
- .129 Other chemic substances
  - Abnormal substances

612.13 Hydraulic principles of circulation
.133 **Arterial circulation**
Sounds and murmurs
See also 612.143
.134 **Venous circulation**
See also 612.144
1 Air in the veins
2 Venous pulse Flebogram
.135 **Capillary circulation**
.14 Blood pressure
.141 **Technic of mesuring pressure**
Sphygmograf Sphygmomanometry
.143 **Pressure in arteries**
See also 612.133
.144 **Pressure in veins**
See also 612.134
.145 **Pressure in capillaries**
See also 612.135
.146 **Influence of various agents on pressure**
1 Influence of respiration Asphyxia
See also 612.213
2 Effect of drugs and organic extracts
3 Pressure in disease
.148 **Pressure in lesser or pulmonary circulation**
.15 Rapidity of circulation
In arteries, veins or capillaries Technic of mesuring
.16 Pulse
For dicrotic pulse see 616.071 Pulse in diagnosis
See also 612.1342 Venous pulse
.166 **Pulse in disease**
.17 Hart
.171 **Mechanism of cardiac contraction**
Impulse or apex beat Change of volume and position of beating hart Systole Diastole
1 Technic of cardiac contraction Cardiografy
3 Valvs System of valv closure
5 Hart sounds
56 " " in disease
7 Action of abnormal hart: misplaced or malformd
.172 **Hart as a muscle**
Cardiac irritability, contractibility and physiologic morfology
1 Action of blood and coronary arteries Cardiac anemia
2 Rhythm Excitation wave Frequency of beats
3 Electric stimulation of hart and refractory period
4 Electromotiv force
5 Surviving hart Artificial respiration
Solutions maintaining beat of hart
6 Physiologic morfology
61 **Conduction of stimulation**

612.173 **Work of the hart**
Chemic, dynamic and thermic fenomena
1 Chemic composition of hart
2 Intracardiac pressure
.174 **Effect of toxins on the hart**
1 Atropin
2 Anesthetics
.176 **Hart in disease**
.178 **Innervation of hart**
1 Pneumogastric or vagus
See also 612.819911
2 Sympathetic
See also 612.897
3 Ganglions of hart
4 Action of cerebrum
See also 612.8228
5 Action of medulla oblongata
See also 612.828
6 Cardiac syncopes and reflexes
7 Depressor nerv
.179 **Prenatal circulation**
.18 Vasomotors
.181 **Action of nervs and nerv centers on bloodvessels**
1 Action of cerebrum
2 " " medulla oblongata
3 " " spinal cord
4 " " great sympathetic
.182 **Influence of vasomotors on arterial pressure**
.183 **Vasoconstrictors**
.184 **Vasodilators**
.185 **Effect of poisons on vasomotors**
.186 **Vasomotors in disease**
.187 **Vasomotors in organs**
Divide like 612 Physiology; e. g.
612.18724 Effect of vasomotors on lung capacity
612.1878421 Effect of vasomotors on iris
612.1875 Influence of vasomotors on temperature
612.187556 Vasomotors in fever
.188 **Erectil tissues**
See also 612.612
.189 **Change of volume of organs**
Plethysmografy Quantity of blood in various organs
.19 Action of special organs on circulation
.2 **Respiration**
See also 612.793 Cutaneous respiration
.21 Respiratory movements Mechanics of respiration
.211 **Pneumografy Respiratory types**
Respiratory excursion
.212 **Pulmonary elasticity and intrapleural pressure**
Intrapulmonary and intrathoracic respirations

612.213 **Influence of respiration on circulation**
See also 612.1461
.215 **Special physiology of respiratory apparatus**
1 Bronchi
2 Trachea
3 Smooth pulmonary muscles
4 Primary paths of respiration: nose and pharynx
5 Pleura
8 Pulmonary circulation
See also 612.148
9 Pulmonary absorption of liquids
See also 612.385
.216 **Respiratory frequence and rhythm**
1 Respiratory sounds
2 Pulmonary ventilation
3 Artificial respiration, artificial changes of respiration
.217 **Action of muscles Mechanical fenomena**
Dimensions and expansibility of thorax
1 Action of diafram
.219 **Other mechanical fenomena**
Modified respiratory acts: snoring, laughing, crying, sighing, yawning, coughing, hawking, sneezing, blowing nose, gargling
.22 Respiratory exchange of gases Respiratory chemistry
02 Action of oxygen and ozone on organisms
08 Composition of normal air (only in its physiologic bearing)
.221 **Technic of gaseous exchange**
.222 **Effect of various agents on gaseous exchange**
.223 **Effect of quality of air**
Hyperpnea, polypnea, thermopnea
1 Composition of abnormal air
11 **Carbonic acid**
12 **Activ oxygen or ozone**
2 Influence of barometric pressure
See 612.27
3 Influence of climate
.224 **Influence of food**
.225 " " **temperature**
.226 **Effect of disease and intoxications**
.227 **Influence of organs**
1 Influence of muscular movements
Motion, rest, work
2 Influence of nervous system
3 " " circulation
.229 **Influence of animal kind**
Variability of gaseous exchange in animal kinds
1 Influence of stature
2 Aquatic animals

612.23 Gaseous exchange in the blood
.231 **Expired air Respiratory quotient**
.232 **Asphyxiation**
In legal medicin
1 Artificial respiration in asphyxiation
2 Asphyxiation by submersion
3 Hart in asphyxiation
4 Toxic action of carbonic acid (CO_2)
.233 **Respiration in confined air**
.234 **Toxic action of carbonous oxid (CO)**
See also 612.11114 and 615.96
.235 **Exchange of gases between air and blood**
Theory
.24 Lung capacity Vital capacity
Residual, reserv, respiratory or tidal and complemental air
25 Exhalation of water from lungs
26 Internal or tissue respiration
.261 **Exchange of gases between tissues and blood**
.262 **Accumulation of oxygen in tissues (cells)**
.27 Influence of barometric pressure on living beings
See also 612.01441. For effect on absorption of oxygen and exhalation of carbonic acid see 612.2232
.273 **Toxic effects of oxygen and ozone**
.274 **Effect of more than normal pressure**
Physiologic aspect of caisson disease
.275 **Effect of less than normal pressure**
1 Physiologic and therapeutic effects of high altitudes
11 **Mountain and aeronautic sickness**
.276 **Effect of pressure on fermentations**
Effect of removing pressure
.279 **Maximum pressures**
Effect on aquatic animals
.28 Respiratory centers
Influence of nervous system on respiration
.281 **Action of cerebrum and of will**
.282 " " **medulla oblongata and vagus nucleus**
.283 " " **spinal cord**
.284 " " **chemic substances and abnormal blood gases**
1 Toxicology of center
2 Apnea, acapnea, dyspnea
See also 612.232
.287 **Action of pneumogastric or vagus nervs**
See also 612.819912
.288 **Respiratory reflexes**
See also 612.8332
.29 Influence of other organs on respiration

612.3 **Digestion**
May be subdivided by 01–09 for form, if needed

.31 Mouth Teeth Salivary glands

.311 **Mastication and prehension**

1 Physiology of teeth

.312 **Deglutition or swallowing**

2 Tonsils 3 Tung

.313 **Salivary glands Saliva**

1 Composition of normal saliva

2 Action of saliva on food Ptyalin

3 Salivary secretion

31 Toxic effect of saliva

4 Action of chemic substances

See also Therapeutics, 615.741 Sialagogs

41 Elimination

42 Action of atropin and of pilocarpin

5 Physiologic morfology

6 Pathologic changes of saliva

61 Salivary fistulas

63 Bacteriology

64 Salivary calculi

69 Abnormal substances

8 Action of nervous system on salivary secretion

82 Action of sympathetic nervs

See also 612.898

87 Action of chorda tympani

See also 612.81977

.314 **Salivary venoms and venoms in general**

1 Chemic composition

2 Toxic action

3 Natural immunity and resistance to venoms

4 Attenuation and neutralization of venoms

5 Treatment of venom poisoning Serotherapy

See 615.94 Duplicated here for physiologist only

51 Antitoxins

See also 612.11822 Antitoxins of serum

.315 **Esofagus**

.32 Stomach Gastric juice Vomiting

.321 **Normal composition of gastric juice**

1 Gastric fistulas, experimental and pathologic

2 Determination of acid in gastric juice

5 Proteolytic ferments: pepsin

6 Milk curdling ferments, inorganic and organic

.322 **Digestiv power of gastric juice**

1 Starch and analogs

2 Sugars " "

3 Fats " "

4 Albuminoids

45 Nature and properties of peptones

See also 612.39817

5 Antiputrefactiv properties of gastric juice

6 Mixture of bile or other secretions of digestiv tract and gastric juice

612.3227 Absorption in stomach and transformation (into mucus) of products of digestion

See also 612.386

72 Absorption and transformation of sugars

73 " " " " fats

74 " " " " nitrogenous substances (peptones)

75 " " " " salts Effect on stomach

.323 **Stomach secretion**

1 Formation and destruction of pepsin

Pepsin in urin

21 Formation of hydrochloric acid (HCl)

3 Autodigestion of stomach

4 Effects of removing stomach

5 Action of chemic substances (poisons) on gastric secretion and their elimination

.324 **Physiologic morfology of stomach**

Relation between morfologic changes and stimulation

.325 **Pathologic changes of stomach secretion**

Bacteriology

3 Gastric juice in disease

5 Abnormal substances in gastric juice

9 **Movements of stomach**

.327 Muscular irritability of stomach

1 Motor action of pneumogastric See also 612.819913

2 Evacuation of stomach

3 Merycism and rumination

5 Vomiting

7 Action of emetics or vomitories

8 See also under therapeutics, 615.731 Emetics

.328 **Action of nervous system on stomach**

1 Psychic influence on stomach secretions

8 Sensibility of stomach

.33 Intestin

Middle intestin and glands of middle intestin in invertebrates

.331 **Normal composition of intestinal juice**

1 Intestinal fistulas, experimental and pathologic

7 Intestinal gases Fermentiv process due to bacteria

.332 **Intestinal digestion**

1 Carbohydrates

3 Fats

4 Albuminoids and derivates Erepsin

7 Absorption and changes of food in intestin

See also 612.386

72 Carbohydrates

73 Fats Chyliferous vessels See also 612.426

74 Albuminoid derivates

75 Other substances

751 Inorganic substances Water and salts

8 Action of intestinal juice on other secretions and ferments

See also 612.3226

84 Enterokinasis and secretin

612.333 **Intestinal secretion**
·334 **Action of chemic substances on the intestin and their elimination**
4 Purgativs
See also therapeutics, 615.732 Cathartics
·335 **Physiologic morfology of intestin**
5 Intestinal circulation
·336 **Pathologic changes of intestinal secretion**
3 Parasites and microbes
31 Bacterial fermentation Physiologic effect of microbes
·337 **Movements of intestin**
1 Movement of chyme in intestin
·338 **Action of nervous system on intestin**
1 Action of nervs and nerv centers on secretion
·339 **Peritoneum Omentum**
1 Absorption in peritoneum
See also 612.387
·34 Pancreas Pancreatic juice
·341 **Normal composition of pancreatic juice**
1 Pancreatic fistulas
·342 **Action of pancreatic juice on food Tryptic digestion**
1 Starches and analogs
2 Sugars
3 Fats Steapsin or ptyalin
4 Albuminoids Trypsinogen Trypsin
5 Effect on other digestiv fenomena
51 On bile and gastric juice
See also 612.3226
·343 **Pancreatic secretion**
·344 **Action of special substances on pancreatic secretion and juice**
·345 **Physiologic morfology**
Relation between morfologic changes and stimulation
·346 **Pathologic changes of pancreatic juice**
·348 **Action of nervous system on pancreas**
·349 **Pancreas as an internal gland Ilands of Langerhans**
1 Pancreatic glycosuria
Physiologic fenomena only. See also 612.35216, 612.46621, and diseases 616.61, where most material belongs
·35 Liver
·351 **Hepatic circulation and chemic composition**
1 Chemic composition
11 Ferments
5 Hepatic circulation
51 Ligature of portal vein
6 Effect of extracts from hepatic tissue
61 Hepatic opotherapy

612.352 **Effect of liver on absorbd foods**
1 Glycogenesis Glycogen of liver and its tissues
See also 612.396112 Chemistry of glycogen
11 Determination of amount of sugar and glycogen: technic
12 Sugar of the blood See also 612.122
13 Action of nervs on glycogenic function Experimental diabetes
14 Fermentation of glycogen Glycogenolysis
16 Glycosuria (diabetes) in general
See also 612.3491, 612.46621 and pathology 616.63
17 Glycogen of other organs
18 Glycogen of muscles See also 612.74411
19 Relations between glycogenesis and alimentation
2 Fat Adipogenic function
·353 **Hepatic chemic fenomena**
1 Formation of urea See also 612.4612
·354 **Action of poisons on liver**
1 Toxic steatoses
2 Antitoxic action of liver
·355 **Temperature of liver** See also 612.563
·356 **Hematopoietic function of liver and effect on blood**
See also 612.119
·357 **Bile**
1 Normal composition of bile
11 Biliary fistulas
13 Coloring matter Bile pigments
Bilirubin, biliverdin For origin see 33 below
14 Mineral salts
15 Biliary acids and their salts
Glycocholic and taurocholic acids
2 Action of bile in the intestin
Final fate of bile
3 Bile secretion
31 Quantity
32 Origin of bile acids
33 " " " pigments
4 Action of chemic substances on bile secretion
See also therapeutics, 615.742 Cholagogs
5 Elimination of poisons by bile
6 Pathologic physiology of bile
For general works and medical aspect see 616.36
64 Biliary calculi
65 Obliteration of bile ducts Icterus Jaundis Cholemia
See also pathology, 616.36 Liver and bile ducts
66 Bile in disease
67 Toxic effects of bile
69 Abnormal biliary substances
7 Biliary excretion Physiology of ducts
71 Gall bladder
72 Absorption in biliary ducts
73 Contractility of ducts
8 Innervation of bile ducts
·358 **Action of nervous system on liver**
·359 **Ablation, regeneration, cicatrization and other morfologic fenomena**
1 Volume of liver
2 Fatty or starchy degeneration

612.36 Defecation Large intestin
Proctodeum and its appendages in invertebrates
.361 Chemic composition of excrements
.363 Cecal digestion Vermiform appendix
.364 Absorption in large intestin
.365 Defecation
.366 Rectum
.367 Movements of large intestin
.368 Innervation " " "
.38 Absorption
.381 Imbibition Transudations and exudations Edema
.382 Osmosis See also 612.0144621
1 Dialysis of mineral salts
2 " " sugars
4 " " albuminoids
.383 Diffusion
.384 Absorption by skin
See also 612.79
.385 Absorption by lungs
See also 612.2159
.386 Absorption in digestiv tract
General; see also specific part of tract
.387 Absorption by mucous and serous membranes
See also 612.3391
.388 Parenchymatous absorption
Absorption by cellular tissue (after injection)
.39 Nutrition Metabolism
.391 Hunger Thirst Inanition
3 Hunger, thirst and nervous centers Mechanical action of hunger
4 Inanition in man
6 " " disease
9 " " animals
92 Inanition in poikilothermic animals
96 " " homoiothermic "
.392 Foods
1 Assimilation of carbon
2 " " nitrogen
See also 612.46123
3 Assimilation of water
4 " of sulfur, fosforus and iron
3 Sulfur 4 Fosforus 5 Iron
5 Thermodynamic value of food
6 Mineral foods
1 Sodium salts 2 Potassium salts 3 Calcium salts
7 Vegetable foods
71 Vegetarianism See also hygiene, 613.26 Vegetable diet
While the strictest vegetarians confine themselvs to a purely vegetable diet, the majority use some forms of animal food, e. g. milk, butter and
72 Fruits and fresh vegetables
73 Cereals
74 Bred

612.3928 Animal food
See also hygiene, 613.28 Meats in diet
81 Meats
82 Soup Meat extracts
83 Egs
84 Milk
See also 612.664
841 Sterilization and artificial changes in milk
85 Cheese
86 Butter
9 Special artificial foods
.393 Condiments and stimulants
1 Alcohol as food Fermented drinks
See also hygiene of nervous system, 613.81 Alcohol
2 Coffee Tea
See also hygiene of beverages, 613.37
9 Condiments
.394 Ration or food requirement during growth
2 Of man Nourishment of newborn
3 " animals
.395 Ration or food requirement of adults
1 Working ration Normal ration
12 Working ration for man
13 " " " animals
2 Subsistence ration
22 Subsistence ration for man
23 " " " animals
5 Relations of ration to external conditions, e. g. climate
6 Food requirements in disease
.396 Carbohydrates
1 Chemic composition
11 Polysaccharids
111 Starch Inulin
112 Glycogen
113 Cellulose
12 Gums and analogs: dextrin
13 Monosaccharids: glucose, mannose, gallactose, fructose, etc.
14 Disaccharids: sugar, lactose, maltose, etc.
17 Combined carbohydrates
See 612.3981453 Glycoproteids
172 Chitin
175 Glycosids: amygdalin, salicin, phlorizin, saponin, etc.
19 Other carbohydrates: pentose, inusitum
2 Changes of sugars in organism Glycolysis
21 Products of carbohydrates; e. g. glycuronic acid
22 Alcohol in tissues
3 Hydrolytic ferments of carbohydrates and analogs
31 Amylasis, inulasis, cytasis, etc.
32 Saccharoclastic ferments Inversion
4 Formation of carbohydrates in organism
5 Thermodynamic value of carbohydrates
7 Quantity of carbohydrates in foods and tissues

612.397 **Fats**
1 Chemic composition
2 Changes of fats in organism
21 Fatty degeneration and infiltration See also 612.3952
22 Products of fats
23 Acids
24 Glycerins
3 Lipolytic ferments
4 Formation of fats
5 Thermodynamic value
7 Quantity of fat in food and tissues Adiposity
8 Lipoids
81 Cholesterin
82 Lecithin
.398 **Albuminoids and nitrogenous substances**
1 Chemic composition
11 Composit albuminoids
For eg albumin see also 612.39283
12 Blood serum and other serous fluids of body
See also chemical properties of blood, 612.124 Albuminoids
13 Simple albuminoids
131 Albumin
132 Globulins: fibrinogenic and fibrinoplastic substances, myosin, etc.
133 Coagulated albuminoids Fibrin Coagulation of albuminoids
135 Albuminoids as acids or bases
136 Nucleoalbumins, simple phosphorated albuminoids
138 Protamins
139 Other albumins
14 Other albuminoids
145 Proteids
Albumin + a complex organic compound
1 Nucleoproteids
Albumin + nucleic acid, products of nucleic acid and specific ferments
2 Hemoglobin and analogs
Albumin + an iron compound. See also 612.11111
3 Glycoproteids
Albumin + a carbohydrate. See also 612.3967
146 Albuminoids: glutin, elastin, amyloid, etc.
15 Vegetable albuminoids
16 Albuminoid products and nitrogen compounds
17 Albuminoses and peptones
172 Thermodynamic value
175 Changes of substances derived from albuminoids by digestion
19 Products of complete change of albuminoids Nitrogen compounds
191 Protaminic nucleus See also 612.398138
192 Amidic acids
193 Urea Uric acid See also 612.4612, 612.46125, 612.398195
194 Ammonia and ammonia compounds
195 Bases (alkaloids), purin compounds
196 Aromatic compounds
197 Nonnitrogenous products of albuminoids
199 Other products
2 Changes of albuminoids in organism
3 Proteolytic ferments
Only general works See specific nitrogen compounds for their derivates, ferments and properties For milk curdling ferments see 612.3216 and 612.664171
5 Thermodynamic value of albumins and derivates
Albumin as food

612.3986 Formation of albuminoids in general
7 Quantity of albuminoids in food and tissues
8 Toxins, antitoxins Chemistry of poisons
For action, see 612.11821; for animal poisons, see 612.314; for ptomains, leucomains, etc. see 612.398195 above
.4 **Glandular system Secretion Excretion**
.401 Effect of circulation on glands
.402 " " glands " circulation and blood
.403 " " " " nutrition
.404 " " nutrition " glands
.405 Physics and chemistry of secretion
.407 Effect of glands on nervous system
.408 " " nervous system on glands
See also 612.817
.409 Physiologic morfology of secretions and glandular epitheliums
.41 Spleen
.411 **Hematopoietic action Effect of spleen on blood**
.412 **Splenotomy Circulation in spleen**
.413 **Contractility of spleen**
.414 **Spleen in relation to other organs**
1 Effect on digestion
.416 **Function of spleen in disease, in experimental infections and in wounds**
.418 **Chemic fenomena**
.42 Lymfatic system and lymf
For lymfocytes see 612.112
.421 **Lymf Chemic composition**
.422 **Quantity and origin of lymf**
.423 **Lymfatic circulation**
1 Thoracic duct
.424 Lymfatic harts
.425 **Innervation of lymfatic system**
.426 **Lymfatic absorption**
See also 612.33273
.427 **Lymfatic fistulas**
.428 **Lymf glands**
.43 Thymus
.44 Thyroid gland
.441 **Chemic composition**
.442 **Parathyroid glands or accessory thyroids**
.445 **Thyroidectomy Destruction of thyroid**
Including pathologic destruction
.448 **Effects of thyroid extracts**
.45 Suprarenal capsules
.451 **Chemic composition**
.455 **Excision and destruction**
.458 **Effect of capsular extract**

612.46 Kidneys Urin
.461 **Chemic composition of urin**
1 Reaction and physical properties
11 Reaction
12 Density
13 Temperature
17 Urinary technology
174 Staining reactions
175 Spectroscopic examinations
176 Polarimetric "
177 Histochemic "
178 Pathologic urinary technology
179 Densimetry and cryoscopy of urin
2 Urea and nitrogen compounds
21 Determination of quantity of urea Ureameters
22 Determination of total nitrogen
23 Excretion and metabolism of nitrogen
231 In relation to alimentation
232 " " " work
234 Effect of chemic substances (poisons)
235 Influence of temperature
236 " " disease
238 " " nervous system
239 " " animal kind
Variability of process in animal kingdom
25 Uric acid See also 612.398193
251 Determination of quantity
254 In animals
255 " normal man
256 " man in disease: uric diathesis
259 " other tissues and fluids than urin
26 Other nitrogen products of urin
261 Bases Xanthin bases See also 612.398195
262 Ptomains
263 Allantoin
264 Peptones See also 612.46668, 612.39817
266 Hippuric acid
267 Ammonium and other urates See also 612 398194
268 Ferments See also 612.32321
269 Physiologic albuminuria
27 Coloring matter Pigments: urobilin, urochrome
6 Salin substances in urin
61 Chlorin salts
62 Fosforus and its compounds
63 Sulfur and its compounds
64 Gases of urin
8 Nonnitrogenous organic constituents of normal urin
82 Sugars Physiologic glycosuria
.462 **Urinary toxicity**
1 Internal secretion of kidneys
.463 **Urinary secretion**
1 Quantity of urin
2 Elimination of urin
4 Renal circulation
5 Influence of blood and circulation
6 Comparativ secretion of the two kidneys
8 Effect of nervous system
81 Glycosuria, polyuria after lesion of medulla oblongata

612.464 **Action of poisons on urinary secretion and their elimination**
1 Diuretics Polyuria
See also 615.761 Diuretics in therapeutics
2 Toxic albuminurias
See also 612.46622
3 Elimination of poisons by urin
4 Toxic glycosuria Phlorizin
See also 612.46621
.465 **Physiologic morfology of kidneys**
.466 **Pathologic physiology of kidneys and urin**
1 Urinary calculi
2 Urin in disease
21 Urin in diabetes Chemistry of glycosuria For physiology of diabetes see 612.35216
22 Urin in albuminuria Albuminuria in general
See also 612.461269, 612.4642 and 616.634
23 Resection and lesion of kidneys, experimental and pathologic
Ligature of ureter, etc.
231 Uremia See also 616.638
26 Urin in fever
6 Abnormal substances in urin
61 Acetonuria Acidosis
62 Chyluria
63 Other abnormal products of metabolism
631 Glycuronic acid See also 612.39621
64 Products of intestinal putrefaction Indican
67 Biliary pigments Choluria
68 Albuminoses and peptones
69 Hematuria and hemoglobinuria
7 Urinary fermentation Putrefaction of urin
.467 **Urinary discharge**
1 Physiology of bladder, ureters and urethra
11 Micturition
2 Absorption in urinary passages
3 Innervation of vesical apparatus
For prostate see 612.617 For action of nervous system on function of kidneys see 612.4638
.49 Other glands and secretions
.491 **Bone marrow**
.492 **Hypophysis or pituitary gland** **Somatic brain**
.493 Scent glands of animals
.494 **Bartholini's glands**
.495 **Carotid gland**
.499 **Other glands**
See also 612.664, 612.792

612.5 Animal heat

.51 Sources Thermogenesis Calorimetry

.511 Direct calorimetry

6 Calorimetry in disease

.512 Indirect calorimetry

1 Influence of alimentation

3 Effect of respiration

.52 Loss of heat Radiation Thermolysis

Conduction of animal tissues

.521 Cutaneous radiation

1 Physiology of clothing

.523 Loss by pulmonary evaporation

.524 " " cutaneous evaporation

.53 Regulation of temperature Heat balance Thermotaxis

.531 Influence of vasomotors

.532 " " muscular movement

See also 612.7453

.533 Effect of perspiration

.534 " " respiration Thermic polypnea

.535 Thermic centers

.54 Other conditions affecting temperature and thermogenesis

.541 Effect of baths

.543 " " inanition

See also 612.391

.544 Effect of poisons

.55 Variations in production and regulation of heat

.556 In disease: fevers

.56 Temperature of body

.563 Thermic topografy

.58 Hibernating animals

.59 Heat and cold; effect on organism

Subdivisable with o like 612; e. g. 612.59074 Effect on muscles
612.5908 " nervous system

See also 612.01443

.591 Effect of heat Deth from heat Thermic rigidity

.592 Effect of cold Deth from cold Rigidity from cold

612.6 Reproduction and generation Development

.601 Spontaneous generation

See origin and beginnings of life, 576.1

.602 Transplantation Animal grafting

May be divided by organs like 612

.603 Cicatrization Regeneration

May be divided by organs; e. g. 612.60344 Regeneration of thyroid
612.60384 " " eye

.604 Reproduction of lower organisms

Protozoa, etc.

1 Asexual: fission, division, gemmation or budding or sprouting

2 Sexual: conjugation or concrescence

5 Variations: alteration of generations or metagenesis, pedogenesis, parthenogenesis

.605 Morfogenesis in general Heredity

See 575 Evolution

1 Heredity

2 Variation, including artificial

3 Hybridization

4 Tumors

Only for physiologic aspect, for pathology see 616.992

.606 Proportion and determination of sexes

See also Biology, 577.8 Sexes in nature, sexuality

.607 Consanguinity Incest

.608 Hermafroditism

.609 Theory of evolution Natural selection, darwinism

See 575 Evolution

.61 Male functions of generation

For semen see 612.616

.612 Erection

Including also the function in general, in either or both sexes See also 612.188

.613 Copulation and fecundation

1 Artificial "

2 Parthenogenesis

21 Artificial parthenogenesis

.616 Testicles Orchitic fluid Sperm

1 Effects of castration Resection or injury, experimental or pathologic, of testicles or of sexual glands in general

2 Physiology of spermatozoa

3 Testicles as internal glands Interstitial cells

.617 Appendages of male organs: semeniferous ducts, seminal vesicles

.62 Female functions of generation Ovulation

See also 612.612 and 612.6161

.621 Physiology of ovaries

See also 612.6303

1 Ablation or injury of ovary, experimental or pathologic

See also 612.6161

.622 Physiology of ovum

.627 Physiology of uterus

1 Uterin circulation

8 Innervation of uterus

612.63 Impregnation Pregnancy Parturition
See also 612.612
01 Period of pregnancy
03 Ovary in pregnancy Corpus luteum
.64 Development of embryo
For embryology see 611.013; for abnormal development see 611.012 Teratology, 617.3 Deformities
.646 **Physiology of embryo**
.647 " " **fetus**
.648 " " **newborn**
.649 **Appendages of embryo Amniotic fluid**
See also 611.0138 Fetal appendages (in embryology)
.65 Growth after birth
See also 612.64
.651 **Metamorfosis of lower animals Larvae**
.66 Period of full development
.661 **Puberty**
.662 **Menstruation**
.663 **Fecundity**
.664 **Lactation and milk**
Physiology of mammary glands
1 Physics and chemistry of milk
12 Sugars
13 Fats Butter
14 Albuminoids
16 Mineral substances
17 Lactic fermentation Milk ferments
171 Milk curdling ferments Coagulation of milk
18 Other constituents
181 Abnormal substances
19 Comparison of milk of various animals
191 Human milk
3 Lactic secretion
31 Quantity
32 Formation of sugars
33 " " fats
34 " " albuminoids
35 Colostrum
36 Effect of various agents on secretion
4 Action of poisons on milk secretion and their elimination
5 Physiologic morfology of milk
6 Pathologic changes in lactic secretion
7 Digestion of milk
8 Innervation of mammary glands
.67 Period of decline Deth
See also 577.7
.68 Longevity
See also 368.3 Life insurance; 519.5 Probabilities; 614.12 Deth rates

612.7 **Motor and vocal apparatus Skin**
.71 Protoplasm
See also 612.014 General physiology of cells and organisms
.72 Vibratil cilia
.73 Smooth muscle
Divided like 612.74
.74 Striped muscle
Muscle in general, including smooth muscle
.741 **Muscular contraction**
1 Myografy
12 Single contraction of muscle fiber Jerk contraction
13 Tetanic contraction
14 Tonic contraction
15 Influence of chemic substances on muscles
16 Myografy in disease
2 Change of volume of muscle
3 Muscle wave
4 Elasticity of muscle
Myotonometry Effect of weight Tension
6 Muscular irritability Influence of blood
61 Circulation in muscles
62 Effect of stimulation
63 " " electricity
7 Latent period
Time elapsing between moment of stimulation and response by an activ tissue
8 Muscle murmur
9 Physiologic morfology of muscles
Histologic phenomena of contraction
.742 **Muscles after deth Rigor mortis**
1 Chemic phenomena after deth: autolysis
.743 **Electric phenomena of muscles**
.744 **Chemistry of muscle**
1 Normal composition
11 Carbohydrates
See also 612.35218 Glycogen of muscles
14 Albuminoids
15 Other organic substances
16 Mineral substances
Including water Muscle salts
17 Gases
2 Chemic effects of muscular contraction
21 Fatigue
211 Ergografy Dynamometry Work in general
22 Consumption of oxygen and production of CO_2 in work
23 Function of carbohydrates
24 Relation of chemic changes to work Metabolism in relation to work
.745 **General effect on organism of muscular contraction or work**
See also 612.532
1 Dynamic effects
3 Thermic "
5 Relations between work and heat

612.746 **Pathologic physiology of muscles**
1 Contractures
4 Tremors Shuddering
5 Nutrition of muscles Atrofy Degeneration Regeneration
Including nerv influence See also 612.818
.75 Bones, joints and connectiv tissues
.751 **Chemic composition of bone and connectiv tissue**
See also 612.398146
1 Bone
2 Cartilage
3 Connectiv tissue
.752 **Nutrition of bones**
.753 **Growth, cicatrization and regeneration of bone**
.754 **Periosteum Perichondrium**
.755 **Tendons**
.76 Locomotion
Principles of animal mechanism; comparativ study of locomotion preferably clast in 591.47
.761 **Chronofotografy: technic**
.763 **Special movements Combined movements**
Physiology of violin playing, etc.
.766 **Human locomotion**
1 Physiology of exercise and work
2 Rest
.767 **Animal locomotion Special organs of locomotion**
Swimming bladder of fishes
.768 Flight
.769 **Biologic adaptation of movement**
.77 Electric and phosphorescent animals
Preferably clast 591.59
.771 Electric animals
.772 Phosphorescent animals
.78 Voice and speech
See also 784.9 Vocal hygiene; 808.5 Elocution; 534.7 Sound
.781 **Sensibility of larynx**
.782 **Movements and innervation of larynx**
1 Influence of spinal accessory nerv
See also 612.819923
2 Influence of pneumogastric
See also 612.819917
3 Laryngoscopy
4 Movements of glottis
5 Epiglottis
.783 **Artificial larynx**
.784 **Singing Timbre, quality Voice register**
.785 **Larynx in deglutition and other laryngeal functions**
See also 612.312
.786 Organs of sound in lower animals
.788 Larynx of birds

612.789 **Speech Language**
1 Function of mouth and nose
2 " " lips and soft palate
3 Innervation of organs of speech Aphasia
See also 616.855
4 Vowels and consonants
5 Ventriloquism
See also 791.1 Ventriloquism as an amusement
.79 Skin
.79015 Chemic composition
.791 **Absorption**
See also 612.384
1 Penetration by solids
2 Absorption of fats
3 " " solutions
4 " " liquids
5 " " gases
.792 **Cutaneous glands and secretion**
1 Swet Chemic composition
12 Toxic action of swet
4 Action of chemic substances on swet secretion
42 Elimination of poisons by swet
5 Physiologic morfology of swet
6 Pathologic changes of swet
8 Action of nervous system on cutaneous exhalation
9 Other cutaneous secretions
.793 **Cutaneous respiration**
4 Effect of suspended transpiration; closing pores by liniments, etc.
5 Effect of chemic substances on skin
See also 612.7924
.794 **Cutaneous sensibility**
.795 **Electric conductibility and resistance of skin**
See also 612.014422
.796 **Chromatophores and skin pigments**
.798 **Trofic nervs of skin**
.799 **Growth and physiology of nails and hair**

612.8 Nervous system

.801 Theory of nervous system and innervation
- 1 Dynamogenesis and inhibition
- 2 Action of nervous system on chemic fenomena
- 3 Effect on morfogeny and evolution
  - See also 612.605

.81 Peripheral nervous system Nerv fibers

.811 Distinction between sensory and motor nervs
- 3 Ganglions of sensory nervs
- 4 Influence of sensibility on movement and of movement on sensibility

.812 Recurrent sensibility

.813 Electric fenomena of nervs and muscles
  - Muscle-nerv experiments as indicativ of nervous process
  - For muscle fenomena see 612.743
- 2 Negativ variations
- 3 Electrotonus

.814 Chemic and thermic fenomena of nervous stimulation
  - For stimulation of nerv centers see 612.8222

.815 Physiologic morfology of nervous stimulation
- 1 Sensory terminations
- 2 Motor "

.816 Irritability of nervs and muscles
  - Nerv-muscle or nerv-gland physiology
- 1 Action of electricity
- 2 Theories of nerv waves
- 3 Nervous conductibility
- 4 Effect of blood on nervs **Anemia**
- 5 Rapidity of nerv waves
- 6 Nerv fatigue
- 7 Action of chemic substances on nervous irritability

.817 Effect of nervs on muscles and glands
- 1 Chemic substances Curare poisons
- 2 Voluntary contraction
- 3 Tonicity Atrofy of muscles after cutting nervs, etc.
  - See also 612.7465

.818 Trofic nervs
- 5 Degeneration, regeneration and cicatrization
  - 1 Degeneration 2 Regeneration 3 Cicatrization

612.819 Special nervs
  - Whenever possible class according to function rather than according to a particular nerv, classing here only special nerv physiology

- 1 1st pair: olfactory
- 2 2d pair: optic
  - See also 612.843
- 3 3d pair: motoroculi or oculomoto
- 31 **Innervation of iris**
  - See also 612.8422
- 32 **Innervation of eyelids**
  - See also 612.847
- 33 **Innervation of eye muscles**
- 4 4th pair: trochlear or pathetic
- 5 5th " : trigeminal
- 52 **Sensory action**
- 53 **Trofic action**
- 6 6th pair: external oculomoto or abducent
- 7 7th " : facial
- 71 **Effect on facial muscles**
- 73 " " **respiration**
- 74 " " **hearing**
- 75 " " **deglutition and taste**
- 77 " " **salivation Chorda tympani**
  - See also 612.31387
- 78 **Pathology Facial paralysis**
- 8 8th pair: auditory
  - See also 612.8585
- 9 9th pair: glossopharyngeal
- 91 10th " : pneumogastric or vagus
- 911 **Effect on hart and circulation**
  - See also 612.1781
- 912 **Effect on respiration**
  - See also 612.287
- 913 **Effect on digestiv organs**
  - See also 612.328, 612.338, 612.348, 612.358, 612.368
- 915 **Effect on kidneys and other glands**
  - See also 612.4
- 917 **Effect on voice production**
  - See also 612.7822
- 918 **Section of vagus and pneumogastric**
- 92 11th pair: spinal accessory
- 921 **Anastomosis with vagus**
- 922 **Innervation of respiratory organs**
  - See also 612.28
- 923 **Innervation of vocal organs**
  - See also 612.7893
- 93 12th pair: hypoglossal
- 94 Spinal nervs in particular
- 941 **Phrenic nerv**

612.82 Nervous centers Brain
.821 **Physiologic psychology**
Usually better clast in 130 Mind and body
1 Time of reaction to stimulation Psychometry
2 Attention Memory Association Imagination
3 Instinct Intelligence Emotions Sensibility
31 Comparativ psychology
311 Nonautomatic actions of animals Anticlisis
312 Automatic " " "
For physiologic aspect see 612.829
313 Instincts of animals Behavior See also 591.51
33 Emotions Sensibility
34 Inhibition of movement Will Habit Impulse
35 Associated movements
4 Action of poisons on intelligence
See also 613.8 Hygiene of nervous system
" " 615.9 Toxicology
41 Alkaloids
42 Nonalkaloid anesthetics
See also Therapeutics, 615.96 Cerebral poisons
44 Alcohol
See also Therapeutics, 615.964 Alcohol as cerebral poison
Pathology 616.861 Alcoholism
5 Effect of disease on intelligence
6 Psychic reflexes
7 Sleep Hypnotism
See also 135 Sleep, Dreams
71 Hypnotism See also 134 Hypnotism
73 Theories of sleep
74 Cerebral circulation in sleep
75 Chemic fenomena of organism in sleep
76 Dreams
8 Sense in general and theories of perception
88 Psychophysical laws
89 Sensory delusions
For optic illusions see also 612.84374
.822 **Nerv cells and nerv centers**
1 Chemistry of nervous tissue
Metabolism in nervs
2 Chemic fenomena of nervous excitation
For stimulation of nerv fibers see 612.814
3 Electromotiv fenomena of nervous excitation
4 Thermic " " " "
5 Physiologic morfology " " "
53 Effects of fatigue
54 " " poisons
56 Degeneration and regeneration of centers
6 Effects of removal and experimental, pathologic or teratologic lesion of nerv centers
61 Movement in a circle (motus circularis, manège)
7 Decapitation
8 Action of central nervous system on chemic fenomena of organism
See also 612.01538, 612.8012
81 Effect of chemic changes on centers

612.823 **Weight and general morfology of brain**
5 Conduction in centers
.824 **Cerebral circulation**
1 Neurolymf, neurolymfa or cerebrospinal fluid
Meninges Choroid plexus
2 Brain movements
3 Cerebral vasomotors
4 " anemia
5 Pressure on nerv centers
55 **Compression and concussion of brain** **Abnormal pressure**
6 Temperature of blood in nerv centers
Effect of abnormal pressure
.825 **Cerebral convolutions (cortex)**
1 Cortical excitability
2 Psychomotiv centers Localizations
23 **Inhibitory actions**
See also 612.8338
24 **Localization in man**
249 Speech Aphasia
See also 612.7893
25 Localization in animals
26 **Topografy of localizations**
261 Frontal lobe
262 Occipital "
263 Parietal "
264 Temporal "
265 Central "
266 Olfactory "
3 Cortical epilepsy
See also 616.853
5 Sensory functions of convolutions
Convolutions as seat of senses
54 **Sight**
55 **Hearing**
56 **Smell**
57 **Taste**
58 **Muscular sense**
See also 612.885
59 **Touch**
See also 612.88
8 Intellectual functions
Only for physiology of these functions
.826 **Cerebral ganglions, commissures, etc.**
1 Optostriate body and callosum
Or optic thalami, striatum and callosum
2 Conduction in the brain
See also 612.8235
3 Crura or cerebral peduncles Epiphysis Infundibulum
5 Quadrigeminum Optic lobes
7 Cerebellar peduncles or prepeduncles
8 Pons

612.827 Cerebellum
.828 Medulla oblongata or postoblongata
.829 Special physiology of central nervous system of invertebrates
See also 612.8226
1 Regulating effect of ganglia Circular movements (manège)
2 Chain of ganglions Network of nervs, or rete nervosum
3 Reflex movement
Locomotion in respect to physiology of nervous system
31 Reflexes proper
32 Rhythm Refractory period
33 Tonicity Tonic reflex
34 Coordination
.83 Spinal cord or myel
.831 Conduction in the cord
See also 612.8235
.832 Excitability of cord
.833 Reflex action
Subdivide like 612: e. g. 612.83317 Cardiac reflexes
612.83362 Uterin "
612.8337 Limb reflexes; knee jerk
8 Action of superior nerv centers on reflexes
9 Other phenomena of reflex action
91 Rapidity of reflexes
92 Pathology
93 Effect of anemia
94 Action of poisons on reflexes
95 Rhythm in general
951 Refractory period
96 Coordination
97 Other fenomena
e. g. reflexes according to nature of impulse: fatigue, etc.
.834 Cord as center of innervation
.835 Degeneration and regeneration of cord Atrofies
.84 Physiologic optics Sight
.841 Fibrous tunics of eye
1 Cornea Conjunctiva Anterior chamber
5 Sclera
.842 Vascular tunics Iris Choroid Ciliary body
1 Iris accommodation
See also 612.844 for general papers on accommodation
11 Pupillometers
2 Action of nervs and nerv centers on pupil
3 Effects of light
4 Action of chemic substances on iris Atropin See 615.784
5 Choroid Eye pigments
6 Ocular circulation Intraocular pressure
61 Ofthalmometers

612.843 Optic nerv Retina
See also 612.8192 2d pair of cranial nervs; optic
1 Physiologic morfology Retinal purple
12 Ofthalmoscope
13 Retinal circulation
14 " purple
15 Physiologic morfology of retina
2 Irradiation
3 Color sense Chromatic sensibility
31 Color sight
Power to distinguish colors
For color blindness see 612.8455; 617.75
32 Sensitivness to color
For pathology of chromatic sensibility see 612.8455
34 Mixture of colors
35 Contrast of colors
4 Entoptic fenomena
5 Persistence of retinal impressions
6 Field of vision Visual acuteness and sensibility
61 Photometry
Photometric technic
62 Field of vision
63 Visual acuteness and sensibility
7 Conduction in the brain Perception
71 Histology of fibrillae Center of sight
72 Optic perceptions Localization of image in space
72 Binocular perception Stereoscopy Perception of distance, size and form
Perception of differences in hight of surface For movement see 612.8462
73 Impression of color suggested by sound, auditus coloratus
74 Optic illusions
75 Observations on those born blind
78 Degenerations of optic nerv and fibrillae
.844 Refractory apparatus Ocular refraction
See also 612.8421
1 Crystallin lens
4 Aqueous humor
7 Vitreous humor
.845 Functional disorders or pathology of sight
See also 617.75
1 Myopia
2 Hypermetropia
3 Astigmatism
4 Presbyopia
5 Daltonism Color blindness
See also 612.84331 Color sight; 617.75 Disorders of vision
6 Hemeralopia

612.846 **Movements of eye**
2 Binocular vision
For perception see 612.843721
3 Action of 3d cranial or oculomoto nerv
4 " " 4th " or trochlear nerv
6 " " 6th " or abducent nerv
8 Strabismus Diplopia
.847 **Palpebral and lacrimal apparatus**
.85 Hearing
.851 **External ear: functions**
.854 **Middle ear**
.855 Tympanic membrane or drumhed Tympanum
.856 Eustachian tube
.857 Bones
.858 **Internal ear**
1 Conduction of sound in internal ear
2 Utricle Saccule
3 Semicircular canals
See also 612.8863 and 616.841 Vertigo
4 Cochlea Corti's organ or fibers Spiral organ
5 Acoustic nerv
6 Endolymf
7 Acoustic perception Conduction of acoustic excitation in the brain
71 **Auditory acuteness**
72 **Auditory center in brain**
See also 612.82555
73 **Subjectiv sensations**
74 **Musical physiology and psychology**
Distinction of tones and quality or tone color (timbre)
75 **Binaural hearing**
751 Localization of sound in space Estimation and effect of distance
76 **Sensibility of living beings to sound and vibrations Otocysts**
8 Auditory reflexes
.86 Smell
See also 612.82556 Seat of smell
.867 **Perceptions Conduction in the brain**
.87 Taste
.875 **Function of lingual nerv**
See also 612.8195
.877 **Function of chorda tympani**
See also 612.81977
879 **Function of glossopharyngeal nerv**
See also 612.8199

612.88 Touch Tactil sense Equilibrium
.881 **Notion of space**
.882 **Sense of temperature**
.883 **Sense of pressure**
Including all related phenomena; e. g. tickling
1 Esthesiometers
.884 **Sensibility to pain**
.885 **Muscular sense Power sense**
.886 **Sense of equilibrium**
1 Sense of direction and orientation
2 Seasickness
3 Vertigo
See also 612.8583
9 Function of special organs
Function of lateral line of fishes and other special organs of lower animals
.887 **Anesthesia, hyperesthesia, synesthesia**
.89 Sympathetic nervous system
.8903 Trofic action
.8905 Reflex fenomena
.891 **Cervical ganglions and plexus**
.892 **Thoracic " " "**
.893 **Abdominal " " "**
.896 **Action on eyes; iris**
See also 612.8422
.897 **Action on hart**
See also 612.1782
.898 **Action on digestiv tract; alimentary canal**
See also 612.3 and special subdivisions
.899 **Effect on blood vessels**
See also 612.18

613 General and Personal Hygiene

Care of Health; Prophylaxis; Individual Health; Laws of Health.
.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930–999.

.1 Air and Light.
For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographic distribution of disease.

.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.

.13 Seasons. Time of Day.

.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773 and 614.772.

.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

.19 Sunlight.

.2 Food. Dietetics.
For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.
Including food for special classes of people; literary men, soldiers, etc.

.22 Food for Infants.

.23 Food for the Sick.
Including means for giving nutrition, baths, enemeta, forced alimentation, etc.

.24 Fasting. Famine. Starvation.

.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

.3 Beverages.
For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns

.33 Microscopic Analysis. For Chemical Analysis, see 543.3.

.34 Biologic Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16 Water Supply.

.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics

.39 Other Beverages.

613.4 Cleanliness of Body. Clothing.
See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.

.42 Warm.

.43 Cold. For Swimming, see 797.2.

.44 Douche or Shower.

.45 Sea. Salt.

.46 Hot Air. Turkish. Russian. Roman, etc.

.47 Public.

.48 Clothing.
1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, tight boots, support from hips, etc.

.49 Care of special parts of body.

.5 Human Habitation and Resort.
For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.
These subjects, partly Public and partly Private Hygiene, ar for convenience groupt together here.

.51 Homes.

.52 Hotels.

.53 Tenements.

.54 Schools. Colleges. See School hygiene, 371.7.

.55 Churches, Theaters, Halls, etc.

.56 Hospitals. Asylums.

.57 Prisons. Reformatories.

.58

.59 House Furnishing.
1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 Hygiene of Employment.
For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.

Occupations made Injurious.

.62 By Inhalation of Vapors and Gases.
Bleachers, match-makers, lard refiners, etc.

.63 By Inhalation of Dust or by Absorption.
Grinders, stone-cutters, millers, wool operativs, hair pickers, type founders, grocers, etc.

.64 By Elevated, Low, or Variable Temperature.
Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.

65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.
Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.

.66 By Accidents. See Public health, 614.8, Protection from accidents.
Machinists, quarrymen, caisson-workers, manufacturers of explosivs, etc.

.67 Military Hygiene. Barracks, Camp and Tent Life.

.68 Naval Hygiene. Ship Life.

.69 Hygiene of Travel and Exploration.

613.7 Hygiene of Recreation and Sleep.

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body
For Curativ gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games.

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, ar groupt here by attraction.

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 Hygiene of Nervous System.

Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance

.81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.

.82 Opium and Hashish. See also 178.8.

.83 Chloral and Caffeine. See also 178.8.

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177; Late Hours, 613.79.

.88 Luxury. Privation.
See also Fasting; Famine; Starvation, 613.24

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.

.9 Hygiene of Offspring. Heredity.

See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.

.93 Transmitted Disease.
See also special diseases in 616.

.94 Stirpiculture. Eugenics.

614 Public helth

Public hygiene Public sanitation State medicin Preventiv medicin
See also 628, Sanitary engineering; 352.4 Boards of helth
.02 Compends .03 Dictionaries, cyclopedias .04 Essays .05 Periodicals .06 Societies, conventions .07 Education .08 Sanitary appliances, exhibitions .09 History, description, legislation, reports, etc. divided like 930-999, e. g. 614.0942 Public helth in England

.1 Registration and vital statistics See also 312 Population

.11 Births and birth rates

.12 Deths and deth rates
Divided geograficly like 930–999, e. g. Deth rate in England, 614.1242

.13 Mortality at different ages
For life insurance, life tables, biometry, etc. see Life insurance, 368.3 and Life contingencies, 519.5; Longevity, 612.68

.131 Stillbirths

.132 Infant mortality

.133 Mortality in childhood

.134 " " adult life

.135 " " old age

.14 Mortality of sexes, races, etc.

.141 " " the sexes

.142

.143 " " races: colored, white, indian, etc.

.144 " " city and country

.145 " " different occupations See also 613.6

.146 " from special diseases Causes of deth

.147

.15 Morbidity

.16

.17 Marriage

.18 Divorce See also 173.1 Family ethics

.2 State control of medicin

.21 Medical education and degrees See 610.7; 378.2 Academic degrees

.22 Anatomy and vivisection laws See 179.4 Ethics

.23 Expert testimony and other medico-legal relations
See 340.6 Medical jurisprudence

.24 Registration of physicians, dentists, pharmacists, etc. License to practis

.25 Regulation of medical practis
See 174.2 Professional ethics, physicians

.26 Quackery and malpractis

.27 Nostrums and patent medicins See also 614.353 Adulterations

.28 Sale of poisons See 615.9 Toxicology

.29 Medical police

614.3 Adulterations: inspection of articles liable to affect public helth Pure food laws
Public analysts State laboratories For chemic analysis see 543
.31 Inspection of food For chemic analysis see 543.1; Hygiene 613.2
.311 Sugars Sirups Confectionery
.312 Cereals Starches Bred
.313 Lards Fats Oils See 614.325-6 Butter, oleomargarin
.314 Spices Condiments
.315 Yeast Baking powders Cream of tartar
.316 Fresh food Vegetables, fruits
.317 **Meats Fish (fresh)**
.318 Cand or preservd food Vegetables, fruits
.319 **Meat Fish Oysters (preservd)**
.32 Milk and milk products
.321 **Milk analysis** See also chemistry, 543.2; dairy, 637.1277
.322 **Milk of known purity**
.323 **Milk sold to consumer**
.324 **Cream Skimd milk Condenst milk Buttermilk Kumiss**
.325 **Butter and its imitations**
.326 Oleomargarin
.327 **Cheese and its imitations**
.33 Other articles of food
.34 Inspection of beverages
For chemic analysis see 543.1; hygiene, 613.3
.341 Fermented
.342 **Wine**
.343 **Brewd**
.344 **Beer**
.345 Distild
.346 Fruit drinks: lemonade, shrub, etc.
.347 Tea Coffee Chocolate Coco See also 613.37, Hygiene
.348 Mineral waters Soda water
See also 613.38, Hygiene; 615.79 Therapeutics
.349 Mixt drinks
.35 Inspection of drugs For chemic analysis see 543.4
.351 Officinal or pharmacopeial drugs
.352 Nonofficinal drugs
.353 Empiric or patent medicins See also 614.27 State control
.354 Cosmetics
.355 **Poisonous cosmetics**
.36 Inspection of tobacco
.37 Inspection of pigments, wall and other papers, textil fabrics, toys, etc.

.4 Contagious and infectious diseases: general
.41 Causes and origin
See 589.95 Bacteria, microbes; 616.01 Germ theory of disease
.42 Geografic distribution Climatology
Divided like 930-999
.43 Modes of propagation and communication

614.44 Prevention and restriction See also Ambulances, 614.882
.45 Isolation, lazarettos, etc.
.46 Quarantine, etc.
.461 **Maritime quarantine**
.462 **Inland "**
.463 **Control of rags, etc.**
.47 Protectiv inoculation
.471 **Against smallpox** See also 616.912, Pathology
.472 Variolation
.473 Vaccination
1 Bovine vaccination
2 Humanized vaccination
3 Vaccinal syphilis
4 Revaccination
5 Vaccinisation
6 Revaccinisation
7 Retrovaccination
8 Compulsory vaccination
9 Optional vaccination
474 Antivaccination
.475 **Against cholera** See also 616.932, Pathology
.476 **" yellow fever** See also 616.928 Pathology
.477 **" hydrophobia Pasteurism**
See also 616.953 Pathology
.478 **Against other diseases**
Divided like 616
.48 Disinfection
Houses, clothing, rags, workshops, cars, ships, camps, air, soil, persons, sewers, vaults, excreta. Ded, see 614.64 Embalming, etc.
.481 **Fumigating and other apparatus**
1 Stationary
2 Portable
.482 **Disinfectants Antiseptics Deodorizers**
Treated with reference to public helth. See also Materia medica 615.777 and 615.778
.483 Heat
.484 Chemic disinfectants
.485 Carbolic
.486 Salicylic
.487 Chlorids
.488 Copperas
.49 Epidemics Plagues
Divided like 930-999

.5 Contagious and infectious diseases: special
These heds are for public helth discussions only. For treatment, etc. see Pathology, 616
.51 Filth diseases
.511 Typhoid or enteric fever
.512 Diftheria
.513 Diarrheal diseases
.514 **Cholera**
.515 **Cholera-infantum**
.516 **Dysenterv**
.517 **Diarrhea**

614.52 Exanthemata
.521 Smallpox
.522 Scarlet fever
.523 Measles
.524 Rötheln, rubella, rubeola
.525 Chickenpox
.526 Typhus
.53 Malarial fevers
.531 Intermittent fever
.532 Remittent fever
.54 Other contagious and infectious diseases
.541 Yellow fever
.542 Phthisis Tuberculosis
.543 Whooping cough
.544 Mumps
.545 Puerperal fever See also 618.72
.546 Leprosy
.547 Syphilis
.548 Gonorrhea
.55 Parasitic diseases
Hookworm
.56 Diseases communicated from lower animals
.561 Anthrax Charbon
.562 Trichiniasis
.563 Hydrophobia
.564 Glanders
.6 Disposal of the ded
See customs, 393 Treatment of the ded
.61 Burial
.611 Earth burial
.612 Tomb burial
.613 Burials in churches Intramural
.614 Use of perishable coffins
.62 Cremation Crematories
.63 Transportation of the ded
.64 Embalming and disinfection of the ded Use of ice
See 614.48 Disinfection; 615.777 Disinfectants
.65 Effect of cemeteries on helth
.651 By water pollution
.652 " air "

614.7 Hygiene of the air and ground Nuisances
See 613.1 Air (Hygiene); 613.6 Hygiene of employment; 628.5 Industrial sanitation
.71 Air pollution by dust and smoke [works
.72 Air pollution by noxious gases, mineral trades, chemic
.721 Carbon compounds
.722 Carbonic oxid, carbonic acid, carburetted hydrogen
.723 Illuminating gases Gas works
.724 Mineral oil refining
.725 Sulfur compounds
.726 Chlorin "
.727 Nitrogen "
.728 Phosphorus "
.729 Other
.73 Air pollution by vegetable trades
.731 Brewing
.732 Distilling
.733 Vinegar making
.734 Sugar refining
.735 Charcoal burning
.736 Varnish making
.74 Air pollution by animal trades
.741 Slaughter houses Abattoirs Fish
.742 Rendering works Boneboiling Tripe and gut cleaning
.743 Pork packing Lard refining
.744 Soap making
.745 Tanning
.746 Glue making
.747 Lampblack
.748 Commercial fertilizers
.75 Storage and handling of noxious and offensiv materials
.76 Other air pollutions See 628 Sanitary engineering
.761 Stables Stable manure
.762 Hog stys
.763 Offal Ded and diseased animals and fish
.764 Vaults Cesspools Water closets, privies, urinals, night soil
.765 Sewers and sewer outlets Sewer gas
.77 Conditions of soil as affecting helth
Topografy Sanitary Surveys
.771 Analysis of soils See 543.7 Chemistry
.772 Soil moisture
Hygiene of natural water courses and of marshes. See 613.14 Hygiene
773 Ground atmosphere See 613.14 Hygiene
.774 Solid constituents of soil
.775 Malarious soils See 613.14 Hygiene
.776 Recovery of soils from pollution

614.78 Air and ground in towns
.781 Laying out of towns and streets
.782 Subways and elevated ways See 628.47 Sanitation of towns
.783 Parks Air spaces
.784 Hight of bildings and proportion of occupiable area
See 614.85 Bilding laws

.8 Protection of human life from accidents, casualties, etc.
Safety appliances
See 613.66 Hygiene of employment

.81 Drowning
.811 Rescue of the drowning
.812 Resuscitation of the drownd First help Pulmotors
.82 Suffocation
By gases, in vaults, mines, etc.; see also 622.8 Mining dangers. By illuminating gases
.83 Explosions
.831 Manufacture and storage of explosivs and combustibles
See also 662 Chemic technology
.832 Gunpowder
.833 Dynamite, etc.
.834 Inspection of kerosene, etc.
.835 " of illuminating gas
.836 " of electric apparatus
.837 " of steam boilers
.84 Fires
.841 Fire prevention
.842 " detection
.843 " extinction See 352.3 Fire department
.844 Automatic
.845 Chemic extinguishers
.846 Fire engins Water towers See 621.68 Pumping engins
.847 Fire escapes and other apparatus
.848 " exits, etc. from public bildings
.85 Bilding laws Inspection of bildings
See 614.784 Hight of bildings
.86 Protection of travelers
.861 Travel on land
.862 " " highways
.863 " " railroads
.864 " " water
.865 Lighthouses, buoys, etc.
.866 Pilots
.867 Boats, life preservers, etc.
.868 Rescue of shipwreckt Lifesaving servis
.87 Exposure to cold Hospice of St Bernard
.88 Aid to injured
.881 Ambulance
.882 Ambulance for contagious diseases See also 614.44
.883 Bed wagon

614.9 Hygiene of animals Veterinary sanitation
.91 Infectious diseases of domestic animals
.92 Parasites of animals See 591.69 Economic zoology
.93 Animal diseases communicable to man See also 614.56
.94 Care and housing of animals
.95 Feeding of animals
.96 Transportation of animals
.97 Methods of slaughtering
.971 Painless extinction of animal life

615 Materia medica and therapeutics
.02 Compends .05 Pharmaceutic journals .06 Pharmaceutic societies
.07 Education, schools of pharmacy .09 History

.1 Materia medica Drugs Pharmacology
For examining boards, laws, etc. see 614.24 Registration of pharmacists. See also 614.35 Adulteration of drugs; 543.4 Chemic analysis
.11 Pharmacopœias
.12 Dispensatories
.13 Formularies
.14 Prescription writing Posology

.2 Inorganic drugs
Divided like 546. 615.218 Phosphorus; 615.258 Mercury; 615.272 Iron. See also note to 615.7

.3 Organic drugs
See also note to 615.7
.31 Carbon compounds Divided chemicly like 547
.32 Vegetable products Divided botanicly like 580
.33 Vegetable products Divided by caracter
1 Starches 2 Sugar 3 Glucosids 4 Tannins 5 Gums 6 Drugs containing alkaloids 7 Bitters 8 Organic acids
.34 Fixt oils and acids
.35 Ferments: diastase, pepsin, etc.
.36 Organotherapy
.37 Serotherapy
Opsonic theory; see also physiology, 612.118223
Vaccine therapy; see also public helth, 614.473 Vaccination

.4 Practical pharmacy

.5 Therapeutics Action of medicins in general
.51 Certainty of medicins
.52 Antagonism of medicins
.53 Law of similars Homeopathy
Homeopathic works ar clast with the subjects treated. This hed is for Hahnemann's theory only
.54 Influence of age
Infant therapeutics Therapeutics of old age
.55 Influence of sex
.56 Influence of environment
.57 Influence of idiosyncrasy

615.6 Administration of medicins
.61 By stomach
.62 " rectum
.63 " subcutaneous tissue Hypodermic medication
.64 " lungs Inhalation See also 612.385 Absorption
.65 " veins Transfusion of blood
.66 " serous and mucous membranes Peritoneum, vagina, etc.
See also 612.387 Absorption
.67 " skin Baths
See also physiology 612.384

.7 Medicins groupt by effects
Treatises on specific drugs, digitalis, ergot, etc. ar clast in the divisions of materia medica, 615.2–615.3; iron, 615.272; digitalis, 615.32381
.71 Drugs acting on circulatory system
.711 Stimulants
Alcohol, ammonia, digitalis, coffee, ergot
.716 Depressants
Aconite, veratrum group, nitrites
.72 Drugs acting on respiratory system
.721 Expectorants
.726 Errhines Sneezing
.73 Drugs acting on digestiv system
.731 Emetics
Ipecac, mustard, metallic salts, apomorphin
.732 Cathartics
1 Laxativs 2 Salines 3 Purgativs 4 Hydragogs 5 Drastics 6 Mercurials
.733 Anthelmintics
.734 Aids to digestion
1 Bitters, tonics 2 Ferments, pepsin, pancreatin, etc. 3 Acids, antacids
.735 Demulcents, emollients, etc.
Bismuth, oxalate of cerium, etc.
.74 Drugs acting on glandular system
.741 Sialagogs (Saliva)
.742 Cholagogs (Bile)
.743 Diaphoretics (Perspiration)
Pilocarpin, heat, exercize
.75 Antipyretics Antiperiodics
Quinin, salicylates, coal-tar products, kairin, antipyrin, antifebrin, cold, baths. See also 613.41 Baths
.76 Drugs acting on genito-urinary system
.761 Diuretics
Water, citrates, acetates, digitalis, caffein, copaiba
.766 Uterins Oxytocics
Viburnum, ergot, etc.

615.77 External agencies
.771 Irritating
.772 **Astringents**
.773 **Rubefacients**
.774 **Epispastics** **Blisters**
.775 **Escharotics** Caustic potassa
.776 Protectiv Emollient
Fats, oils, powders, starch, bismuth, oxid of zinc
.777 Deodorants Disinfectants
See 614.48 Disinfection; 614.64 Disinfection of ded
.778 Antiseptics Germicides
.78 Drugs acting on nervous system See also 615.95 Neurotic poisons
.781 Anesthetics Chloroform, ether
.782 Hypnotics Chloral, bromids
.783 Analgesics Opium
.784 Mydriatics Belladonna
.785 Excitants Strychnin
.786 Depressants Conium
.788
.789 Other drugs
Camfor, valerian, asafetida
.79 Mineral waters See also 613.38 Hygiene; 553.7 Occurrence in nature

.8 Other remedies
.81 Mechanical remedies
.811 Bloodletting Venesection Cupping
.812 Setons and issues
.813 Bandages Ligatures
.814 Acupuncture
.815 Pneumatic aspiration
.82 Manipulation Exercise
Massage, osteopathy, curativ gymnastics. See also hygiene, 631.71 Gymnastics
.83 Imponderable remedies
.831 Light Blue glass
.832 Temperature: heat, cold
.833 Moisture
.834 Climate See also 613.1 Hygiene
.835 Altitude
Decrease of oxygen and increase of nitrogen with increasing elevation
.836 Pneumatic differentiation
.837 Music
.84 Electricity Electrotherapeutics Radiotherapy
See also 537.87 and 621.3915

615.85 Cures
.851 Mind cure Influence of mind on body
Mental condition as affecting disease; occupation as remedy
See also 130 Mind and body
.852 Faith cure Christian science See 265.8 Religion
See also state control of medicin, 614.24; Christian science theology, 230.95; sects 289.5
.853 Hydrotherapy Water cure
.854 Food cures: grapes, milk, beef, etc.
.855 Thomsonianism Herb doctors
.856 Perkinism Metallic tractors
.86
.87
.88 Patent medicins
.89 Ancient and medieval remedies
Including those of modern uncivilized peoples
.9 Toxicology Poisons
For other relations see Poisons, in Relativ index following Tables
.91 Irritant poisons
.92 Mineral irritants
.921 Acid poisons
.922 Alkalin poisons
.923 Nonmetallic poisons
.924 Phosphorus See also 615.218 Drugs
.925 Metallic poisons
.926 Arsenic See also 615.219 Drugs
.927 Mercury See also 615.258 Drugs
.928 Led Painters colic See also 615.251 Drugs
.929 Copper See also 615.256 Drugs
.93 Vegetable irritants
Hellebore, aloes, croton oil, etc.
.94 Animal poisons
Cantharides, diseased meat, ptomains, tyrotoxicon, etc.
.95 Neurotic poisons
See also 615.78 Drugs acting on nervous system
.96 Cerebral or narcotic poisons Carbonic oxid and acid
.961 Opium
.962 Prussic acid
.963 Cyanids
.964 Alcohol
.965 Ether
.966 Chloroform
.967 Chloral hydrate
.97 Spinal poisons
Nux vomica, strychnia
.98 Cerebrospinal poisons
Aconite, belladonna, lobelia
.99 Cerebrocardiac poisons
Digitalis, tobacco

616 Pathology Diseases Treatment

May be subdivided by 0 like 610, if wisht. Use 616.01 for etiology, germ theory, bacteriology, classification of diseases. Use 616.07 for diagnosis, study of disease, and subdivide it as follows: 1 Pulse 2 Tung 3 Eye, skin, etc. 4 Auscultation, percussion 5 Thermometry 6 Chemistry, urin analysis 7 Microscopy, radioscopy, etc. 8 Pathologic anatomy 9 Postmortem examination

.1 Diseases of circulatory system
.11 Membranes of the hart
.12 Hart Angina pectoris
.13 Arteries
.14 Veins
.15 Blood
.2 Diseases of respiratory system
.201 Croup
.202 Hay asthma, hay fever
.203 Influenza, epidemic catarrh
.204 Whooping cough See also 614.543
.205 Coryza, catarrh
.206 Asphyxia
.21 Nose Naso-pharyngeal space
.22 Larynx
.23 Trachea Bronchi Bronchitis Asthma
.24 Lungs
.241 Pneumonia, lung fever
.242 Congestion
.243 Hemorrhage
.244 Abscess
.245 Gangrene
.246 Phthisis, tuberculosis, consumption See also 614.548
.247 Embolism and aneurism of pulmonary artery
.248 Emphysema
.249 Collapse
.25 Pleura Pleurisy
.3 Diseases of the digestiv system
For diseases of teeth see 617.6
.31 Mouth: tung, fauces Sore throat, quinsy, mumps
See also 614.544
.32 Pharynx Esophagus
.33 Stomach Gastritis, dyspepsia, vomiting
.34 Intestins Hernia, diarrhea, constipation, colic
.35 Rectum Anus Piles
.36 Liver Gall bladder Jaundis
.37 Pancreas
.38 Peritoneum Omentum Mesentery Peritonitis
.39 Dietetic diseases
Surfit, starvation, scurvy, dyspepsia

616.4 Diseases of lymfatic system and ductless glands
.41 Spleen
.42 Lymfatics: thoracic duct
.43 Thymus
.44 Thyroid body Goiter, Graves disease
.45 Suprarenal bodies
.5 Dermatology Skin diseases
.51 Inflammatory affections
Diffuse, papular, scaly, nettlerash, hives
.52 Catarrhal, vesicular, pustular Eczema, shingles
See also 614.561
.53 Disorders of sebaceous glands
.54 Hypertrofies Atrofies
Corns, warts, white hair, baldness
.55 New formations Pigmentary changes
Albinism, freckles
.56 Disorders of swet glands
.57 Parasitic diseases See 616.96 Parasitic diseases
.58 Other skin diseases
Chilblain, frostbite, chaps
.6 Diseases of genito-urinary system
For diseases of women, see 618
.61 Kidneys Ducts Bright's disease
.62 Bladder Calculus
.63 Urinary disorders Diabetes
.64 Male urethra
.65 Prostate
.66 Penis
.67 Scrotum
.68 Spermatic cord Testes
.69 Functional diseases of male generativ organs Spermatorrhea, impotence
.7 Diseases of organs of locomotion
.71 Bones (except spine)
.72 Joints (except spine)
.73 Spine Curvature
.74 Muscles
.75 Tendons Fasciæ
.76 Bursæ Sheaths of tendons
.77 Connectiv tissue
.8 Diseases of nervous system
.81 Diseases relating to cerebrospinal circulation Apoplexy
.82 Diseases relating to cerebrospinal meninges
.83 Structural diseases of brain and cord

616.84 Functional diseases of brain and cord For insanity see 132.1
.841 Vertigo
.842 Paralysis
.843 Neurasthenia
.844 Spinal irritation
.845 Eclampsia, convulsions See also obstetrics, 618.75
.85 Neuroses
.851 Chorea, St Vitus dance
.852 Hysteria See 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria
.853 Epilepsy
.854 Tetanus, lockjaw
.855 Aphasia
.856 Anesthesia, hyperesthesia
.857 Megrim, sick hedake
.86 Neuroses due to special poisons
.861 Alcoholism See also Dipsomania, 132.7
.862 Metallic tremor
.87 Diseases of nervs Neuralgia, cramp
.88 Diseases of sympathetic system
.9 General diseases
.91 Infectious diseases
.911 Eruptiv fevers
.912 Small pox See also 614.471 and 614.521
.913 Cowpox
.914 Chickenpox See also 614.525
.915 Measles See also 614.523
.916 Rubella, rubeola, rötheln See also 614.524
.917 Scarlet fever, scarlatina See also 614.522
.92 Other fevers General works on fevers
See also 612.57 Animal heat
.921 Dengue, breakbone fever
.922 Typhus See also 614.526
.923 Plague
.924 Relapsing fever, famin fever
.925 Cerebrospinal fever
.926 Simple continued fever
.927 Enteric fever, typhoid fever See also 614.511
.928 Yellow fever See also 614.476 and 614.541
.93 Diftheria Cholera Malarial fever
.931 Diftheria See also 614.512
.932 Asiatic cholera See also 614.475 and 614.514
.933 Sporadic cholera
.934 Epidemic diarrhea See also 614.517
.935 Dysentery See also 614.516
.936 Malarial fever See also 614.53

616.94 Septic diseases
.941 Phagedena
.942 Erysipelas
.943 Pyemia
.944 Septicemia
.95 Venereal diseases Hydrophobia, etc.
.951 Syphilis See also 614.547
.952 Gonorrhea See also 614.548
.953 Hydrophobia See also 614.477 and 614.563
.954 Glanders See also 614.564
.955 Horsepox
.956 Splenic fever
.96 Parasitic diseases See also 614.55
.961 Animal parasites
See 591.69 Economic zoology; 614.92 Parasites of animals
.962 Entozoa
.963 Trematoda, flukes
.964 Cestoda, tapeworms
.965 Nematoda Round worms, thredworms, trichinæ
See also 614.562
.966 Acanthocephala, thornheded worms
.967 Insecta parasitica Maggots
.968 Ectozoa
1 Insecta parasitica: mosquitoes, gnats, bedbugs, fleas, lice
5 Arachnida parasitica: mites, ticks
8 Suctoria parasitica, leeches
.969 Vegetable parasites See 581.69 Economic botany
.97 Effects of poisons See 615.9 Toxicology
.98 Effects of injuries and climate
.981 Presence of foren bodies
.982 Mechanical injuries
.983 Excessiv exertion and strain
.984 Excessiv venery
.985 Privation
.986 Exhaustion
.987 Chemic agents
.988 Climate
.99 Other general diseases
.991 Rheumatism, rheumatic fever Gout
.992 Tumors
.993 Nonmalignant: cysts, wens
.994 Malignant: cancer
.995 Tubercle
.996 Scrofula Rickets
.997 Myxedema Cretinism
.998 Leprosy See also 614.546

617 Surgery
May be subdivided by 0 like 610, if wisht

.1 Injuries
.11 Burns and scalds
.12 Lightning and electric shock
.13 Contusions and abrasions
.14 Wounds
.141 Incised
.142 Contused
.143 Lacerated
.144 Punctured
.145 Gunshot See 617.99 Military surgery
.146 With lodgment of foren bodies
.147 With complete separation of parts
.148 Poisond See 615.9 Toxicology
.15 Fractures
.16 Dislocations
.17 Sprains
.18 Asphyxia

.2 Results of injuries
Constitutional effects and other complications. See also 616.94 Septic diseases
.21 Shock
.22 Inflammation
.23 Abscess Sinus Fistula
.24 Ulcers Sores
.25 Mortification Gangrene
.26 Traumatic fever
.27 Tetanus See also 616.854

.3 Orthopedic surgery Deformities
For convenience the whole subject of deformities is clast here, tho many of them hav no surgical treatment. See also 573.8 Dwarfs and giants; 573.9 Monstrosities; 611.012 Teratology; 613.91 Congenital defects
.31 Incomplete development or growth
Divided like 611 Anatomy
.32 Incomplete coalescence of parts: harelip
.33 Coalescence of parts
.34 Extension of commissure (Apparent duplication)
.35 Coalescence of fetuses Siamese twins
.36 Supernumerary parts or organs: extra fingers or toes
.37 Disproportionate growth of parts
.38 Transposition or displacement of parts
.39 Congenital distortions, including talipes, club foot

617.4 Surgical operations
.41 Circulatory system
.42 Respiratory system
.43 Digestiv system
.44 Glandular and lymfatic system
.46 Genito-urinary system
.47 Motor and integumentary system
.48 Nervous system
.5 Regional surgery
.51 Hed Trephining
.52 Face Mouth See 617.6, Dentistry; 617.7, Eye; 617.8, Ear
.53 Neck Throat
.54 Chest
.55 Abdomen
.56 Pelvis
.57 Upper extremities Artificial arms, hands, etc.
.58 Lower extremities Artificial legs, feet, etc.
.6 Dentistry Diseases of teeth
.61 Diseases of dental pulp
.62 Diseases of dentin and cementum
.63 Diseases of dental periosteum
.64 Malposition and malformation of teeth
.65 Odontalgia, toothake
.66 Extraction of teeth
.67 Stopping teeth
.68 Transplanting teeth
.69 Artificial teeth
.7 Ophthalmic surgery Diseases of the eye
.71 Conjunctiva Cornea Sclerotic Ophthalmia
.72 Iris Choroid Ciliary body
.73 Optic nerv Retina
.74 Lens and its capsule Vitreous humor Affections of the globe Cataract
.75 Disorders of vision
Myopia, shortsightedness, astigmatism, colorblindness, daltonism. See also physiology, 612.845
.76 Muscular apparatus Lacrimal apparatus
Strabismus, squint
.77 Eyelids
.78 Orbit and neighboring parts
.79 Artificial eyes

617.8 Diseases of the ear
.81 Affections of external ear
.82 Auricle
.83 Auditory canal
.84 Affections of middle ear
.85 Membrana tympani
.86 Eustachian tubes
.87 Mastoid cells
.88 Affections of internal ear
.89
.9 Operativ surgery
See 615.781 Anesthetics
.91 Armamentaria Surgical instruments
.92 Orthopedic appliances Splints, trusses, etc.
See 617.3 Orthopedic surgery
.93 Surgical dressings
.94 Amputation Resection
.95 Plastic surgery
.96
.97
.98
.99 Military surgery

618 Diseases of women and children

.1 Gynecology Diseases of women
.11 Ovary
.12 Fallopian tube
.13 Periuterin diseases
.14 Uterus and cervix
.15 Vagina
.16 Vulva
.17 Functional and symptomatic disorders
Diseases of menstruation Leucorrhea Sterility
.18
.19 Diseases of brest

618.2 Obstetrics

.21 **Pregnancy Physiology**
.22 Diagnosis Signs of pregnancy
.23 Duration
.24 Hygiene Management
.25 Multiple pregnancy: twins, etc.
.3 **Pathology of pregnancy**
Diseases of pregnancy and their treatment
.31 Ectopic gestation Extra-uterin pregnancy
.32 Pathology of ovum
.33 Deth and retention of fetus
.34 Pathology of fetal appendages
.35 Decidua
.36 Placenta
.37 Amnion
.38 Umbilic cord
.39 Abortion Miscarriage Stillbirth Molar pregnancy
See 173.4 Infanticide; 340.6 Medical jurisprudence; 343 Criminal law
.4 **Parturition Labor Physiology**
.41 Mechanism of labor
.42 Presentations Positions
.43 Clinic course and phenomena
.44 Conduct of normal labor Management
.5 **Pathology of labor**
Abnormal labor from faults
.51 of powers Anomalies of expellent forces
.52 of passages Mechanical obstacles to expulsion of fetus
.53 of child Abnormalities of fetus See 617.3 Deformities
Complications
.54 Hemorrhage
.55 Rupture or laceration of genital tract
.56 Retention of placenta
.57 Inversion of uterus
.58 Prolapsus funis
.59 Other complications

618.6 **Puerperal state Physiology**
Management, including care of child
.7 **Pathology of puerperal state Puerperal diseases**
.71 Diseases of lactation: milk fever, mastitis, etc.
.72 Puerperal fever See 614.545 Public helth
.73 Metritis Peritonitis See also 616.38 Cellulitis
.74 Septicemia See also 616.944 Pyemia See also 616.943
.75 Convulsions See 616.845 Eclampsia
.76 Puerperal mania See 132.1 Insanity
.77 Phlebitis Venous thrombosis Phlegmasia dolens
See 616.14 Diseases of veins
.78 Other puerperal affections
.79 Sudden deth after delivery
.8 **Obstetric operations**
.81 Application of lever and forceps
.82 Version
.83 Embryotomy
.84 Dilatation of os and cervix
.85 Symphyseotomy
.86 Cæsarian section
.87 Removal of placenta
.88 Induction of labor Removal of ovum
.89 Intra-uterin injections Antiseptics in midwifery
.9 **Pediatrics Diseases of children**

619 Comparativ medicin Veterinary

.1 **Horses**
.2 **Cattle**
.3 **Sheep, goats**
.4 **Swine**
.5 **Poultry**
.6 **Birds**
.7 **Dogs**
.8 **Cats**
.9 **Other**

620 Engineering

See also 690 Bilding; 721 Architectural construction

SUMMARY

620.1 Applied mechanics Engineering materials
621 Mechanical engineering
.1 Steam engineering
.2 Hydraulic engins or motors
.3 Electric engineering
.4 Air and gas engins and other motors
.5 Pneumatic machinery Refrigerating machines
.6 Blowing and pumping engins
.7 Mills Factories Engineering works
.8 Millwork Hoisting and conveying machinery
.9 Machine tools
622 Mining engineering
623 Military and naval engineering
.8 Naval architecture
624 Bridges and roofs
625 Railroad and road engineering
626 Canal engineering
627 River, harbor and general hydraulic engineering
628 Sanitary engineering
629 Other engineering industries

.01 Statistics
.02 Quantities and cost
.03 Contracts and specifications
.04 Designs and drawings
.05 Executiv
.06 Working and maintenance
.07 Laws and regulations
.08 Patents
.09 Reports

.1 Applied mechanics Engineering materials
Class here general works on materials with reference to their fitness in engineering See also 691 Bilding materials

.11 Strength of materials General theory
General works considering various materials. For particular materials see 620.12–.19 Provision is made below for classing tests on 2 different bases: 1) by character of test, 2) by material tested. Class under material rather than under test when the two conflict. See also note under 620.112
For theory or mechanics of structures see 624; for theories of construction of bildings see 690.1

.111 General
This hed is left for specialists wishing to analyze general works or collect clippings and notes too limited for .11 yet not specific enough to be put with a particular test or material. Libraries are unlikely to need any general hed except 620.11

620.112 Tests Factors affecting strength
Kinds of tests. Directions for making various tests, laboratory manuals
See note to 620.11
1 General: influence of temperature, selection of test pieces, etc.
2 Corrosion Wethering Protection against deteriorating influences
3 Elastic limit tests: plasticity, fatigue, deformation
See also 620.11246 Repeated stress
4 Tension, compression, torsion, flexure, shearing
Class here combined tests as well as general works covering these tests
If wisht, subdivide farther as follows:
41 Tensil tests
42 Compression tests
43 Torsion "
44 Flexure (transverse) tests
45 Shearing tests
46 Repeated stress tests
5 Impact Repeated shock tests
Crystallization and formation of cleavage planes
6 Hardness tests
7 Special tests
Varying for different materials
8 Tests on special shapes and forms
82 Plates and structural shapes
Bars, rods, angles, beams: T, bulb, I, and channel beams
83 Colums, bilt colums Tubes, pipes, cylinders
84 Rollers Spheres, solid or hollow Ball bearings
85 Springs
86 Hooks Chains Hoops Rings
87 Rivets Bolts Screws Nails
Riveted joints of plates
88 Wire Wire rope Cables Hawsers
89 Other forms
9 Other tests

.12 Tests of timber See note to 620.11
.13 Stone Cement Concrete
.132 Stone
.135 Cement
.136 Concrete
.137 Reinforced concrete
.139 Other: artificial stone
.14 Brick, tile, etc.
For glass see 666.1 Manufacture of glass, 691.6 Glass as a bilding material. In engineering it is an accessory material not requiring a place under strength tests
.15 Masonry adhesivs
Cement, mortar, plaster of paris, etc. See also bilding materials 691.5
Lime, plaster, cement
.17 Iron and steel
.18 Other metals
.19 Other materials
.195 Mineral: asbestos, mineral wool
.196 Asphalt Tar
.197 Vegetable: paper, hemp, etc.
.198 Animal: hair, hide, bone, etc.
.199

.2 Compends Handbooks Kent, Trautwine
.3 Dictionaries, cyclopedias
.4 Essays
.5 Periodicals
.6 Societies
.7 Study and teaching Instruments
.8 Tables and calculations
.9 History of engineering

621 Mechanical engineering

May be subdivided like 620.0 and by form numbers

.1 Steam engineering

Subdivide like 620 and 620.0, but use 621.101 as below. Other generalities of steam engineering are in 621.11 and 621.18

.101 Applied thermodynamics
Theory and use of steam in steam engin General energy considerations Steam economy

1 General
Expansion, entropy; extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing, etc. For condensers, superheaters, etc. see 621.197

.11 Mechanism of steam engin Design of engin parts

.111 General

.112 Types of engins: structural

Reciprocating engins in general. Types specified below are all reciprocating, except 1 Primitiv and 9 Other

1 Primitiv
21 Single acting
22 Double acting
3 According to transmission of motion
32 Direct connected
33 Indirect: beam connected
4 According to position
42 Horizontal
44 Vertical
45 Oscillating
46 Inclined
5 According to terminal pressure
52 Condensing
In early period called 'low pressure'
53 Noncondensing
In early period called 'high pressure'
6 According to expansion
61 Single expansion
62 Compound
63 Double expansion: cross compound
64 " " tandem "
65 " " angle "
66 Triple expansion
67 Quadruple expansion
9 Other types
95 Steam turbins
Better clast 621.165
96 Rotary engins
Better clast 621.166

.12 Marine engins

For propulsion see 623.8 Naval architecture

121 General

See also 621.11 and 621.18

.122 Types of marine engins

1 Primitiv
Inventions of Papin, Perier, Fulton, Stevens, etc.
2 Beam and side lever engins
4 Horizontal, inclined, vertical engins
5 Oscillating
8 Launch engins
9 Other special engins

.123 Marine steam turbins

See also 621.165

621.13 Locomotivs

.131 Theory of the locomotiv

1 Adhesion Tractiv force Horsepower
2
3 Tests

.132 Types

Variations modifying tractiv force and speed, and affecting more than 1 class of mechanism. For variations in steam apparatus (oil burning locomotivs, etc.) see 621.133 and 621.134

1 Primitiv forms
2
3 Types according to distribution of wheelbase and load
Exprest by Whyte nomenclature for wheel combinations
5
6 Types according to purpose
62 Freight or goods engins Hog engin
63 Yard, switch or shunting engins
65 Passenger engins
67 Mountain "
68 Mining "
69 Other special locomotivs
8 Peculiar types
Combined 'engin and coach wagon'
9 Types in different countries
Subdivided like 940–999; e.g. English locomotivs 621.132942

.133 Locomotiv boilers Production of steam

Better clast in 621.18423, as boilers of locomotiv type serv many other purposes For boiler management see 621.193

1 Combustion Fuels Petroleum Fuel consumption
See also 621.18357
2 Grate and ashpit Firebox Stays
See also 621.1835
3 Shell and tubes
4 Smokebox and stack Spark arresters
See also 621.1838
5 Exhaust pipe
6 Dome
9 Miscellaneous fittings
Gage cocks, safety valvs, whistles, pumps, injectors, etc.

.134 Engin of the locomotiv

1 Driving mechanism Cylinders, pistons, rods
2 Steam distribution Valvs and valv gears
22 Special types of valvs and valv gear
3
4 Compound principle
Distribution in compound locomotivs
5 Lubrication of locomotiv
9 Other parts of locomotiv: throttle, etc.

.135 Running gear

.136 Tenders

1 Design, weight, brakes, etc.
2 Appliances
3 Taking water without stopping; track tanks; water scoops

.139 Miscellaneous parts

Cowcatcher or pilot, headlight, whistle, bell, sandbox

621.14 Traction engins Road locomotivs

Selfpropelling engins for hauling over roads or ground, or doing other work by locomotion. For railway engins see 621.13. For stationary hauling engins see 621.162

Hauling may be accomplisht either by engins applying their power directly and moving with the load, i.e. locomotiv (621.13) over rails; or traction engins (621.14) over ground or roads; or by engins applying their power indirectly thru cables, etc. and standing in a fixt position either temporarily (621.15) or permanently (621.16)

.141 Theory General

.142

.143 Boilers

Better clast in 621.18423; 621.143 if used is limited to discussion o those suitable to traction engins

.144 Types Traction engins for special uses

.145 Compressing machines Steam rollers

.146 Agricultural: plows, reapers, etc.

.15 Portable engins

Engins that may be moved from place to place, but that remain in a fixt position when working. If selfpropelling, the selfpropulsion is incidental. For fire engms and other pumping engins see 621.64

.151 Theory General

.152 Types, structural, etc.

.153 Boilers

Better clast in 621.18423. If used, limited to discussion of those suitable to portable engins

.154 Portable engins for special purposes

Hoisting, dredging, drilling, etc. See also 621.86 Hoisting and conveying machinery; 621.68 Fire engins; 627.7 Dredges

.156 Agricultural: threshers, etc.

.159 Semistationary engins Various types

.16 Stationary engins

Engins fixt in position; e.g. those running factory machinery, cables, elevators, etc. For management see 621.193. For boilers see 621.18424

.161 Theory and general

.162 Types by use: hauling, dredging, etc.

For pumps see 621.64. For types clast by engin mechanism see 621.164

.163 Stationary boilers

Better clast in 621.18424 with only reference here

.164 Types according to characteristics of engin mechanism or steam distribution

When mechanism and steam distribution conflict, class according to mechanism e.g compound releasing-gear engins 621.1644 rather than 621.1647 Each type mny be subdivided like 621.11· e.g. vertical throttling engins 621.1642244

1 General
2 Throttling engins
3 Automatic shaft governor engins
4 Releasing gear (Corliss) engins Drop cutoff
5 Single acting engins: Westinghouse or Willans type
6 Simple engins
7 Compound engins, triple expansion, etc.

621.165 Steam turbins

See also 621.123 Marine steam turbins

1 **Theory**
11 Methods of calculation
12 Vanes and buckets
13 Guide vanes and nozles
14 Stresses in rotor or disc
15 Windage
■ **Types**
22 Velocity turbins
23 Pressure turbins
24 Combined velocity and pressure turbins
3 **Construction Details of design**
32 Vanes Buckets
33 Guide vanes Nozles
34 Rotor Discs
35 Valvs, governors, safety devices
36 Thrust balancing
37 Mass "
38 Casing, etc.
39 Bearings, etc.

.166 Rotary engins

.169

.18 Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants
For steam heating see 697.5

.181 General

.182 Fuels Combustion

2 **Fuels for boiler heating**
For fuels in general and fuel analysis see 662.6
22 Solid fuels: coal, lignite, wood, sawdust, peat
23 Liquid fuels: tar, petroleum, alcohol
24 Gaseous fuels: gas from blast furnaces, coke ovens; natural gas
25 Composit fuels: city refuse, coal dust, trash
3 **Fuel consumption**
Practical experiments with a single fuel
4 **Comparativ consumption**
Practical experiments with various fuels

.183 Furnace Draft

1 **General**
Heating and grate surfaces
2 **Types of furnaces**
■ **Furnace parts and construction details**
52 Grates
53 Stationary grates
54 Shaking, dumping and step grates
55 Ashpits Furnace doors
57 Burners for liquid fuel
6 **Mechanical stokers**
62 With traveling grate
63 " rocking "
64 " step grate (Roney grate)
65 " plunger
66 " screw
7 **Other appliances**
77 Pulverized fuel appliances
78 Fuel and ash conveyers Ash removers
See also 621.86 Hoisting and conveying machinery
8 **Chimneys Stacks Draft appliances**
Smoke consumers. For smoke prevention see 621.1941 Firing
82 Natural draft Dampers Uptakes
84 Induced draft
85 Forced draft

621.184 Boilers For boiler plants see 621.19
1 General
13 Boiler economy Tests Feedwater
2 Types
22 Marine
23 Locomotiv, traction, portable
24 Stationary
25 Firetube boilers (tubular)
252 Internally fired
253 Externally "
26 Water tube boilers (tubulous)
27 Flash generators Instantaneous vaporizing boilers
5 Boiler construction Setting Parts
52 Shell Heds Tubesheets Domes Drums
Riveted joints, staying and bracing
53 Tubes Ferules Rings
54 Casing
55 Inspection and cleaning parts: man and hand holes, cleanouts, covers
56 Setting and hanging
57 Foundations: masonry, flues, etc.
7 Boiler accessories
72 Water gages, floaters, gage glasses, warning whistles
73 Pressure gages, manometers, safety valvs
79 Other: air cocks and blowout valvs, zincs, steam collectors
.185 Steam transmission and distribution Piping
1 General; laws of flow, condensation, friction
3 Connections; mains, auxiliary piping
4 Valvs Stop, safety, reducing Pressure regulators
5 Drains and traps Receivers and distributing valvs
6 Covering Insulators
Nonconductors for high, low and medium temperatures
7 Joints and cements Expansion joints
8 Utilization of exhaust steam See also 697.5 Steam heating
.19 Steam boiler and power plants Central stations
See also bilding, 697.5 Steam heating; and Boiler, Boilers in Relativ index
.191 General
.192 Arrangement and housing of apparatus
5 Provision for enlargement
.193 Care and management of steam apparatus
.194 Boilers
1 Firing
2 Feeding
Put here general discussion of feeding and feedwater appliances
For separate description of appliances see 621.197
3 Treatment of feed water: purification, softening
4 Scale prevention Incrustation
7 Inspection Tests Rating
.195 Engins: oiling, packing, adjusting
.196 Duration Wear
5 Corrosion
.197 Steam plant accessories Economic appurtenances
2 Feedwater appliances
Tanks, heaters, economizers, filters, purifiers, regulators
3 Pumps Injectors Return traps
4 Separators
5 Superheaters
6 Condensers and cooling towers
62 Surface condensers
63 Jet condensers
64 Cooling towers
67 Condenser accessories
7 Instruments
Indicators, tachometers, gages, dynamometers, thermometers, pyrometers, lubricators, etc.

621.2 Hydraulic engins or motors
Industrial use of water as motiv power, including machines run by water under pressure produced by accumulators and also constructions and appliances for distributing and regulating supply of water to motors
For hydraulic engineering (dam, breakwater, etc.) see 627; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.1; for theory of mechanics of liquids see 532
.21 Water wheels
Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, culverts
.22 Overshot or bucket wheels Brest wheels
.221 Overshot wheels of low velocity
.222 Overshot wheels of high velocity
.223 Brest wheels Fairbairn wheels
.224 Sluice gate or Sagebien wheels
.23 Undershot or impulse wheels and floating wheels
.231 Ordinary undershot wheels
.232 Wheels with curvd vanes or buckets Pelton wheel
.233 Vertical impulse wheels
.234 Current suspension wheels
.235 Floating wheels
.24 Turbins
See also 621.165 Steam turbins
.241 General: parts (e.g. distributors, buckets, guide vanes) regulators
.242 Reaction or pressure turbins
.243 Outward flow
Early forms: Barker's mill
.244 Inward flow
.245 Downward flow
.247 Impulse or Girard turbins
.25 Water pressure engins Accumulators
.252 Hydraulic pumps
.253 Piping for high pressure
.254 Accumulators
.26 Hydraulic machinery and appliances
For theory see 532.81
.262 Funicular engins Hydraulic tackle
.263 Hoists Elevators Cranes
Class preferably in 621.86; i.e. purpose outweighs motiv power
.264 Special handling and lifting machinery for steel works, etc.
.266 Presses Forging and stamping machines
.267 Accessories: injection pumps
.269 Mining, tunneling and other hydraulic appliances
Hydraulic giant, Brandt's hydraulic gun
.27 Hydraulic rams
For theory see physics 532.83
.272 Lifting rams Montgolfier ram, Bolle ram, etc.
.273 Pumping rams Leblanc ram
See also 621.64 Pumps
.274 Compressing rams Sommelier ram
.29 Flood gates Dams Mill sluices Hed and tail races
Adaptation to hydraulic motors. For methods and principles of construction see 627.8 Hydraulic engineering

621.3 Electric engineering

001 Statistics; 002 Quantities and cost; 003 Contracts and specifications; 004 Designs and drawings; 005 Executiv; 006 Working and maintenance; 007 Laws and regulations; 008 Patents; 009 Reports
May also be subdivided for form with 0 like 620.1–.9

SUMMARY

621.31-7 Hevy current engineering
- .31 Generation of electricity
  - .311 General
  - .312 Central stations
  - .313 Dynamoelectric machinery
  - .314 Stationary induction apparatus
  - .315 Electrostatic apparatus
  - .316 Accessories and parts
  - .317 Control and central station wiring
  - .319 Transmission
- .32 Electric lighting
- .33 Electric traction
- .35 Voltaic cells and batteries
- .36
- .37 Electric measurements and testing
- **.38 Weak current engineering**
  - .382 Telegrafy
  - .384 Wireless communication
  - .385 Telefony
  - .39 Other applications of electricity

621.31–.37 Hevy current engineering

.31 Generation of electricity Dynamoelectric machinery Transformers Transmission

.311 General

.312 Central stations: metropolitan, rural

Divided by 001–009 like 621.3 with the following additions to 006
006 Working and maintenance
- 4 Operation and running
- 5 Regulation and control
- 8 Testing
- 9 Repairs and renewal

Administrativ point of view; a specific repair belongs with the part repaird

13 General central stations
Combined power, traction, light, etc. stations
- 132 Steam driven
- 133 Gas "
- 134 Hydraulic
- 135 Composit

2 Stations for lighting only
Divided by source of power like 621.31213

3 Stations for tractiononly
Divided like 621.31213

5 Storage battery pressure regulating equipment

6 Substations
- 63 Transformer substations
- 64 Converter "
- 65 Accumulator "

621.313 Dynamoelectric machinery

1 General; construction, installation

2 Direct or continuous current machinery
- 21 Theory
- 22 General types
- 23 Continuous-current generators
  - 2 Series wound 3 Shunt wound 4 Compound wound
- 24 Continuous current motors
  - Subdivided like 621.31323 above
- 245 Constant speed motors
- 246 Multispeed motors
- 247 Adjustable speed motors
- 248 Varying " " (railway motors)
- 25 Continuous-current converters
- 26 Dynamotors and motordynamos
- 27 Compensators or balancers
- 28 Continuous-current boosters
- 29 Other
  - 291 Acyclic or homopolar machines

3 Alternating-current machinery
- 32 General types of alternating current machinery
  - 321 Single phase machinery
  - 322 " " "
  - 323 " " "
  - 325 Other polyphase machinery
- 4 Synchronous machinery
  - 41 Theory
  - 42 General types
  - 43 Alternating-current generators
  - 44 Synchronous motors
- 5 Alternating-current converters
  - 51 Theory
  - 52 General types Description
  - 53 Synchronous converters
  - 54 Phase converters
  - 55 Frequency converters
  - 56 Double-current generators
  - 57 Motor converters
- 6 Asynchronous machines
  - 61 Theory
  - 62
  - 63 Induction generators
  - 64 " motors
  - 65 Series alternating-current motors
  - 66 Repulsion motors
  - 67 Frequency converters
  - 68 Phase converters
- 7 Rectifying apparatus
  - 72 Mechanical rectifiers
  - 73 Arc "
  - 74 Electrolytic "

621.314 Stationary induction apparatus
- 1 **Theory**
- 2 **General types and description**
- 3 **Transformers**
- 31
- 32 Constant-current transformers
- 33 Constant-potential transformers
- 34 Phase-changing transformers
- 38 Meter transformers
- 4 Auto transformers
- 5 **Potential regulators**
- 51 Compensator potential regulators
- 52 Induction " "
- 53 Magneto " "
- 6 **Reactors or choke coils**
- 7 **Induction coils**

.315 Electrostatic apparatus: condensers

.316 Details of electric machinery Parts
Armatures, field cores, etc.

.317 Central station wiring Control devices and switchboards
For meters and mesuring instruments see 621.37
- 1 **General**
- 2 **Panels**
- 22 Generator panels
- 23 Motor "
- 24 Feeder "
- 25 Transformer "
- 26 Converter "
- 27 Lighting
- 28 Accumulator "
- 3 **Switches**
- 31 General
- 32 Knife switches
- 33 Dial "
- 34 Plug "
- 35 Oil "
- 36 Circuit breakers
- 4 **Rheostats and control devices**
- 5 **Signal devices**
- 6
- 7 **Barriers and compartments**
- 8 **Station protectiv devices (fuzes, lightning arresters, etc.)**

.318 Manufacturing processes
Processes peculiar to electric machinery and apparatus: e.g. insulating, varnishing, baking, armature stamps and dies

621.319 Transmission of electric energy
Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject; e.g. traction lines 621.332
- 1 **General**
- 12 **Systems**
- 122 Direct or continuous current systems
  Including 2 wire systems
- 123 3 wire (or Edison) and other
- 129 Other direct current systems
- 13 Alternating current systems
- 131 Single phase systems
- 132 2 phase (or quarter phase) systems
  - 3 3 wire system
  - 4 " "
- 133 3 phase systems
  - 1 Delta or mesh connections
  - 3 Star or Y connections
- 139 Other polyphase systems
- 15 Composit systems
  Direct and alternating current combined
- 2 **Lines and conductors**
  For local wiring see specific application; e.g. electric light wiring 621.328
- 21 General
  Interaction of parallel lines, heat losses. For traction lines see 621.332; for interior wiring for electric light see 621.328, for telegraf see 621.382, for telefones see 621.385–7
- 22 Overhed or aerial lines
- 222 Systems
- 223 Poles: foundations, guys, etc.
- 224 Cross arms Pins
- 225 Towers
- 23 Underground lines
- 232 Systems
- 233 Condits
- 234 Manholes
- 3 Cables and conductors Insulating materials
- 32 Uninsulated conductors Bare wire
- 33 Insulated " Wire and cable
- 34 Cables
- 37 Insulating materials
  Leakage Influence of chemic composition
- 4 Insulators
- 8 **Protectiv devices**
- 82 Line lightning arresters
  For protection of central stations see 621.3178

621.32 Electric lighting Illumination

Class here works limited to electric lighting, but more general than any of the subheds below. This number is for matter differentiating lighting from other branches of electric engineering, but not for subjects which lighting has in common with other branches. For generation and control of electricity (including central stations) see 621.31, for transmission and wiring see 621.319, for mesuring see 621.37

For theory of electric light see 537.83 Electric lighting

.321 General

.325 Arc lighting

Including systems and lamps

1 General: efficiency, cost, etc.

2 **Constant-current or series systems**

3 **Constant potential or parallel systems**

4–5 Arc lighting according to

4 Type of arc

If emphasis is on form of current, class under 621.3255 If there is conflict, prefer 621.3254

42 Open arc

421

422 " " direct current

423 " " alternating current

43 Inclosed arc

431

432 " " direct current

433 " " alternating current

5 Form of current

If emphasis is on type of arc, class in 621.3254

52 Direct current

521

522 " " open arc

523 " " inclosed arc

53 Alternating current

531

532 " " open arc

533 " " inclosed arc

6 **Composit electrode arcs**

Flaming arcs. Carbid, Bremer magnetite, titanium oxid arcs

7 **Details Accessories**

Arc light carbons

8 **Applications**

For welding see physics 537.85, and metallurgy 669

" therapeutic applications see 615.84 and 621.3915

82 Searchlights

.326 Incandescent lighting

Including lamps and systems

1 General: efficiency, cost, etc.

2 **Systems (Edison 3 wire system)**

3 **Carbon filament lamps**

31 Metalized filaments

32 Other carbon filaments

4 **Metal filament lamps**

41 Platinum filaments

42 Tantalum "

43 Tungsten "

44 Osmium "

45 Other metal filaments

5 **Glowers of other materials**

53 Nernst lamps

621.327 Incandescent vapor lighting and lamps Other electric lighting

3 Vacuum or incandescent vapor lamps

4 Mercury vapor lamps

For mercury rectifiers see 621.3137

5 Carbon vapor lamps Moore lamp

7 Vacuum lamps for special radiations: Crookes tubes, etc.

.328 Apparatus at servis end of line

1 Underwriters requirements

National electric code

2 House wiring

3 Panels

4 Fuzes

5 Insulators, etc.

6 **Meters**

See also 621.37 Electric mesurements and testing

7 Switches

8

9 Other apparatus

.33 Electric traction

See 625 for construction of route; 656 for business management, maintenance; 654 for communication and signals; 699 for car bilding; 725.3 for architecture of stations, terminals, carsheds, shops, round houses, etc. This number is concernd properly only with the apparatus and appliances for transmission and use of the current after it enters the line.

.331 General

2 **Systems**

4 Systems according to current

42 Direct current

43 Alternating current

431 Single-phase

432 2 phase

433 3 phase

439 Others

5 Systems according to delivery of power

52 Trolley systems

53 Overhed trolley

54 Underground trolley

56 Third rail systems

562 Unprotected third rail

564 Protected " "

.332 The line (including track)

1 **General**

Interaction of parallel lines, heat losses, etc. ar better clast in 621.31921

17 Feeders and return systems

2 **Overhed wire Trolley lines**

23 Catenary suspension

25 Trackless trolley

3 **Third rail**

5 **Underground conductor or contact**

6

7 **Accessories**

9 Other types of line

.333 Track

1 General

16 Deteriorating influences

167 Electrolysis Leakage

8 **Rails**

4 **Bonding**

621.334 Rolling stock

For nonelectric rolling stock see 656 for administration, 699 for construction

2 Locomotivs
3 Motor tramcars
4 Accessories and parts Control systems
Motor, controller, current collecting devices, etc. Multiple unit control
5 Locomotiv and car wiring
7 Running gear and other nonelectric details

·35 Chemic electricity Voltaic cells and generators

Primary and secondary

·351 General

E.m.f, counter e.m.f. polarization, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues

·352 Parts and accessories of cells and accumulators

1 Containers: jars, trofs, vats, etc.
2 Electrodes and their accessories: positiv and negativ plates or elements
Grids, supporting frames, insulating rods, etc.
3 Diaframs and partitions
4 Electrolytes Depolarizers Packing
5 Circulators Condits and piping
6 Connections Terminals Binding posts
7 Regulating apparatus
8
9 Other apparatus

·353 Primary cells

See also 537.5 Voltaic electricity; 541.37 Electrochemistry

1 General
3 Single fluid
4 Double " Hevy current cells
5 Open circuit or nondepolarized
6 Closed circuit or depolarized
7 Accessories and parts
8 Classification according to use or operating methods

354 Accumulators or storage batteries

Secondary cells and batteries

1 General
18 Care and handling of accumulators
7 Accessories and parts

·355 Led accumulators

1 General
18 Care and handling
2 Naturally formd: Planté type
3 Artificially formd: Faure type
4 Combined Planté-Faure types
5 Other led accumulators
52 Complex oxid types
55 Led element accumulators
56 Copper led "
57 Zinc " "
58 Cadmium " "

·356 Alkalin accumulators

·357 Other types of accumulators

Thallium, gas, etc.

·358 Other classifications of accumulators

According to use or operation

·359 Other topics pertaining to chemic generation of electricity

·36 Vacant for future use; perhaps for direct transformation of heat or fuel energy

621.37 Electric mesurements, meters and testing

·371 General

Tariffs may be clast here, tho better put in 654

·372 Standards Calibration of instruments

·373 Meters General types

Recording meters. See also special meters, 621.384
Prepayment meters. See also special meters, e.g. 621.3745 Watt hour

·374 Special meters and mesurements

2 Resistance meters: inductance, capacity
Wheatstone bridges, ohmmeters, resistance boxes
3 Potential meters: voltage
Voltmeters, electrometers, standard cells
4 Intensity meters: current
Galvanometers, ammeters, coulometers, Ampère-hour meters
5 Quantity or work meters Watt-hour meters
6 Power meters Watt meters
7 Frequency meters Oscillografs
9 Other meters and mesurements
91 Phase meters Power-factor meters Synchronizers

·379 Other electric mesuring instruments

For other than electric mesurements; e.g. electric thermometers

Weak current engineering

·38 Electric communication: telegrafy, telefony, wireless

Libraries hav too much material clast in 654 to make it practicable to abolish that number for construction and instruments; but for electric engineers and new libraries preferring it, the detaild technical classification is developt here.
For overhed or underground lines see 621.3192

·381 General

·382 Telegrafy Systems

When systems and instruments conflict, classify according to systems
For business administration, see 654; for wireless see 621.384

15 Codes
152 Morse
153 Continental
154 Phillips (press code)
2 A B C, dial, needle telegraf, etc.
21 Early experimental forms
22 A B C
23 Dial
24 Needle
25 Pointer
29 Other
3 Hand operated code telegrafy
31 Simplex
311 Open circuit
312 Closed circuit
32 Duplex
321 Differential duplex systems
322 Stearns duplex
323 Polar duplex
325 Bridge duplex systems

621.382 34 Quadruplex
35 Multiplex
36 Synchronous multiplex: Delany
37 Harmonic " Gray
4 **Automatic code telegrafy High speed systems**
41 Electrochemic automatic: Bain, Morse
44 Ink recording or embossing
45 Wheatstone
46 Pollak-Virag
47 Telepost (Delany)
5 **Printing telegraf**
51 Tape printing: stock tickers
53 Other tape printing: Hughes
55 Page printing: Buckingham, Murray, Baudot
57 Multiple page printing: Rowland
6 **Writing telegrafy**
Transmitting and recording characters while being written; Gray's telautograf
7 **Facsimile telegrafy**
Sometimes cald fototelegrafy
8 **Submarine cable telegrafy**
9 **Other wire systems**
94 Induction telegrafy; from moving trains, etc.
95 Combined telegrafy and telefony Fantom circuits

.383 Telegraf instruments
1 **Transmitting: keys, senders, etc.**
2 **Intermediate and accessory: relays, repeaters, switches**
21 Relays
22 Differential relays
23 Polarized "
24 Repeaters, for simplex; Milliken, Ghegan, Toye, etc.
25 " " duplex or quadruplex
26 Half ' repeaters
27 Switches and distributing apparatus
28 Protectiv apparatus
29 Miscellaneous telegraf accessories
3 **Receiving instruments**
Sounders, recorders, etc. Subdivided, if wisht, like 621.3824–8

.384 Wireless electric communication: telegrafy, telefony
1 **General**
13 Instruments and apparatus
131 Sending apparatus
135 Aerials, etc.
136 Receiving apparatus
2 **Wireless telegrafy Systems**
21 Spark telegrafy; by free oscillations
25 Continuous-train telegrafy; by forced oscillations
3 Instruments
31 Sending apparatus
35 Antennae, aerials, and their substitutes
36 Receiving instruments and apparatus
4 Applications, adaptations, specific installations
5 **Wireless telefony systems**
6 Apparatus
61 Sending apparatus
65 Aerials, etc.
66 Receiving apparatus
7 Applications, adaptations, specific installations
8 Vacant for possible development of visual transmission by wireless

621.385 Telefony Systems
See also 621.3845 Wireless telefony
1 **General**
2 **Party line**
When 2 and 3 or 2 and 4 conflict, 3 or 4 prevails
22 Series
23 Bridging
24 Selectiv
3 **Intercommunicating systems**
Without central switchboard
32 Common return systems; selectiv at each station
34 Radial common return systems; selectiv at one station only
36 2-wire systems; separate returns
4 **Central switchboard systems**
Manual; for automatic see 621.3857
42 Local battery or magneto systems
46 Common battery or central energy systems
5 Multiple switchboard systems
6 Trunking Transfer systems
61 Trunking
63 Transfer systems
7 **Semiautomatic and automatic systems**
72 Semiautomatic
75 Automatic
76 Strowger system (Automatic Electric Co)
8 **Private exchanges**

.386 Telefone instruments
Terminal; subscriber's instruments
2 Transmitters
3 Receivers
4 Induction coils
5 Condensers
6 Hook or other switches
7 Call receiving apparatus
8 Call sending "
9 Miscellaneous accessories
92 Coin collecting devices
94 Protectiv devices
96 Current supply (local batteries)

.387 Central switchboards and other station equipment
1 **General**
2 **Switchboards, manual**
22 Local battery or magneto
26 Common battery
3 Multiple switchboards
35 Divided multiple
4 Trunks Transfer boards
41 Trunks and trunking
43 A boards
45 B boards
47 Multiple plug transfer
5 **Switchboard parts and accessories**

621.387 6 **Power plant equipment and accessories**
62 Accumulators
63 Charging generators
64 Ringing "
7 **Automatic and semiautomatic switchboards**
Including accessories. Subdivided like 621.3857
8 **Telefone transmission**
For transmission common to other branches of electricity see 621.319
Put here only that peculiar to telefony
81
82 Long distance
83 Transposition
84 Telefone cable construction
85 Loading
86 Pupin coils
9 **Other central station accessories**
92 Distributing frames and racks; main
93 " " " " intermediate or secondary
94 Protectiv devices
See also 621.3178 and 621.31982
96 Meters and counters
See also 621.3286 Electric light meters
.388 Vacant for visual transmission by wire
.389 Other electric communication
.39 Other applications of electricity
Subdivide like 600; e.g. electricity applied to mining 621.3922, applied to medicin 621.3915. This place is provided for specialists who prefer to mass all their material under 621.3. Libraries should class rather by purpose of the application; e.g. books on electric heating wil be more useful in a general library under 697.7 with the question of heating than in 621.3997 with a general assortment of unrelated applications. References here show a library's resources on special applications
.4 **Air and gas engins, etc.**
.41 Hot air engins
.42 Comprest or rarefied air or gas engins
.43 Internal combustion engins
.431 General theory of internal combustion engins
.432 Cycles and systems of operation
1 4-cycle systems Otto cycle
2 2-cycle systems
3 Other and modified systems
.433 Gas turbins
.434 Internal combustion engins clast by fuels
1 Engins for gaseous fuels
11 Engins for natural gas
12 " " illuminating gas
13 " " blast furnace gas
14 " " producer gas. For gas producers see 665.8
15 Engins for acetylene gas
2 Engins for liquid fuels
21 Engins for gasolene
22 " " kerosene
23 " " other petroleum oils
24 " " alcohol
3 Engins for solid fuels

621.436 Special engins or motors
Those not limited to a single system or fuel; e.g. description or discussion of Diesel motor. Arrange alfabeticly by name of machine
.437 Parts and accessories of internal combustion engins
.438 Special applications
3 Selfpropeld machinery
Engins for farm machinery, fire engins, roadrollers, etc. See also special machines
4 Selfpropeld vehicles
Class here only adaptation and application of internal combustion engins to motor vehicles. See also 629.2 for motor vehicles
5 Motors for small boats
6 " " large vessels
7 Airship motors
For airships see 629.15
.44 Binary vapor engins
.45 Windmills
.46 Animal motors Tredmills
.47 Solar engins
.49 Power plants and central stations
.5 **Pneumatic machinery Mechanical refrigeration**
.51 Air compressors
.515 Dry air compressors
.517 Wet " "
.52
.53 Comprest air transmission and distribution
.532 Details of transmission Piping, mains, gages, etc. Designs of transmission
.54 Applications for comprest air
For pneumatic hoists, etc. see 621.86
.541 Comprest air motors
.542 Pneumatic tools: drills, hammers, etc.
See also 621.9 Machine tools
.543
.544 Special applications in railway servis
.545 Comprest air locomotivs
.546 Pumping by comprest air
.549 Other applications
Pneumatic cleaning, sandblasts, tubes
.55 Rarefied air and vacuum appliances
Vacuum cleaners: general discussion and description. See also domestic economy 648.52 Methods of sweeping and dusting
.56 Refrigeration
For cold storage see 664.8
.564 Refrigerating fluids
.565 Refrigerating systems and plants
1 Brine system
2 Direct expansion system
.566 Design Calculation of piping, refrigerating surface etc.

621.57 Refrigerating machines
.572 Ammonia compression machines
.573 Ammonia absorption "
.574 Carbonic acid machines
.575 Air machines, vacuum machines, etc.
.579 Other
.58 Icemaking
.581 Can system
.582 Plate system
.6 Blowing and pumping engins
.61 Piston blowers Blast furnace blowing engins, etc.
.62 Rotary blowers
.63 Centrifugal blowers
Including fans: exhaust and plenum
.64 Power pumps and pumping engins
Regardless of motiv power
.641 General theory Design and construction
.642 Tests of pumps and pumping engins
.65 Direct acting pumps
.652 Piston pumps
.654 Plunger "
.66 Rotary pumps
.67 Centrifugal pumps
.68 Fire engins
.69 Other blowing and pumping devices
Steam jets, ejectors, etc.

621.7 Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses, offises, etc.) with reference to sequence of processes, economy of power and handling; also equipment and internal arrangement of each shop. See also
651 Offis methods and equipment
657 Accounting, costkeeping, estimates
658 Business methods
659 Advertizing, etc.
670 Manufactures: articles, and methods and machines for making them
725.4 Architecture of factories

In 621.7 is considerd the disposition of the material for which the architect constructs the shell, the assembling into a unit of elements essential to a great factory. A works manager may wish to keep *all* his notes on his own plant here, including machines and processes for his special product, but a general library should class manufactured articles, with the special means and methods of producing them, under the number for the article; e.g. a library would class material on spindles and looms in 677, but the manager of a woolen mill might prefer to class them in 621.7983 as an integral part of his plant, tho classification under the regular number will usually prove more satisfactory in all cases

.701 Location
With reference to supply of raw material, market for finisht product, shipping facilities, relativ cost of freight on material or product; e.g. the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in locating an automobile factory

.704 Organization and administration
Managers and engineers, professional staff; artizans and laborers regarded as machine accessories; hours and shifts considerd solely with reference to effect on output. For wages and other economic aspects see 331 Capital, labor and wages; for factory legislation (protection and welfare of employees) see 338.9. For organisation of clerical force see 651

.705 Mechanics and laborers
.71 Drafting room
.711 General
.712 Arrangement
.713 Equipment
.714 Materials and supplies
.715 Methods and processes
.719 Other
.72 Woodworking shop Pattern shop
May be subdivided like 621.71
.73 Forge shop
May be subdivided like 621.71
.74 Foundry
May be subdivided like 621.71
.75 Machine shop
May be subdivided like 621.71
.76 Blast furnace
May be subdivided like 621.71
.77 Rolling and drawing mills
May be subdivided like 621.71
.78

621.79 Other shops and departments
.792 Boiler and sheet metal shops
Stamping and punching May be subdivided like 621.71
.794 Special process shops
Galvanizing, plating, etc. May be subdivided like 621.71
.795 Finishing shop
Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71
.796 Storehouses
2 Materials and supplies
4 Explosivs
6 Products Shipping department
.798 Department turning out main product
Processes and machines Varying for different kinds of factories and provided only for factory use, see note to 621.7. Libraries should leav vacant May be subdivided like 621.71
.799 Other minor shops and departments

.8 Principles of mechanism Power transmission Hoisting and conveying machinery
.81 General Principles of mechanism Machine design
.82 Journals, shafting, etc.
.821 Journals
.822 Bearings: ball, roller, etc. Hangers Bearing metals
.823 Shafting
.8235 Flexible shafting
.825 Couplings and clutches Universal joints
Friction clutches
.826 Shaft brakes
.83 Tootht gears and cams
.831 General: theory, forms of teeth, tooth curvs
.832 Efficiency of gears Tests Friction of gears
.833 Design of gears
1 Spur gears
2 Bevel and skew bevel gears
3 Worm and spiral gears
Screws for transmitting motion, endless screws
.834 Construction: gear cutting and casting
.835 Chain gearing
.837 Ratchet gearing: pawls, dogs
.838 Cams
.84 Valv motions and gears
General, trade catalogs; for special valvs see subject
.846 Valvs and cocks
.85 Machinery and mill gearing
Class here transmission by flexible connections
.852 Belt connection
.853 Hemp rope transmission
.854 Wire rope
.856 Pulleys Sheavs
.858 Friction gearing

621.86 Hoisting and conveying machinery
For dredges see hydraulic engineering, 627.7 Dredging, dredging machin ery See also 621.26 Hydraulic machinery: 621.18378 Fuel and ash conveyers
.861
.862 Hoists: blocks and tackle
.863 Mechanical tackle Chain blocks
.864 Winches Capstans Windlasses
.865 Power shovels
.867 Conveyers Telferage
4 Belt or bucket conveyers
5 Belt: moving sidewalks
6 Bucket: escalators, moving stairs
7 Other conveyers: cash carriers, etc.
.868 Telfers
1 Selfpropelling
.869 Other: jacks, etc.
.87 Cranes and elevators
.871
.872 Derricks
.873 Revolving cranes
621.873–5 may be subdivided like 621.8771–5 by kind of power if wisht; e.g. 3 Steam 4 Hydraulic 5 Electric
.874 Traveling cranes
.875 Locomotiv cranes
.876
.877 Elevators
1 Handpower
2 Belt driven
3 Steam, gasoline
4 Hydraulic
5 Electric
6
7 For special purposes
71 Passenger elevators
72 Freight "
For mines see 622.17–.68
73
74 Dum waiters Book lifts
Lifts for small objects
8 Apparatus
81 Car and guides
82 Power transmitting devices
83 Counterbalancing weights and guides
84 Control devices
85 Safety "
86 Accessories

621.88 Fastenings
.882 Screws and bolts Systems of screw threds
For screws for transmitting motion see 621.8333
.883 Keys and cotters
.884 Rivets Design of riveted joints
.89 Friction Lubrication Lubricants
.9 Machine tools
Manipulation Discussion and catalogs of different kinds and makes of metalworking tools. For manufacture of various tools, see 672. For woodworking tools, see 674 Wood manufactures; also 684 Cabinet making, 694 Carpentry, 736 Wood carving
.91 Planing and milling machines
.912 Metal planers, shapers, and slotters
.92 Grinding and filing Abrasivs
.922 Cylinder and surface grinding machines
Lapping machines
.923 Emery wheels
.924 Filing machines
.93 Cutting and sawing
.931
.932 Metal sawing and cutting machinery
.94 Turning
.941
.942 Metal turning lathes
.943
.944 Pipethreding machines
.945 Boring mills
.95 Perforating machinery
.951
.952 Drilling machinery Drills
.953
.954 Reamers
.955 Tapping machines
.96 Punching and shearing machinery
.97 Hammers Riveting tools
.98 Bending, straightening, and shaping
.981
.982 Bending machinery
.983 Straightening machinery
.984 Flanging and die press machinery
.99

622 Mining engineering.

See also 338.2 Mining products; 332.41 Coinage metals
May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009

.1 Exploration and Prospecting
.11 Theory. Applied Geology, etc.
.12 Prospecting. Practical Methods.
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19
.17
.18
.19 Mining Prospectuses. See 553.

.2 Practical Mining.
.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering. Masonry lining. See also 622.56.

.3 Working of Mines. Exploitation.
.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Coal Mining. See 553.2.
.34 Metal Mining. See 553.3 and .4.
.35 Working Thick Deposits.
.36 Salt Mining. See 553.63.

622.4 Ventilation and lighting of mines
.41 Theory Gases met with, etc.
.42 Natural ventilation
.43 Furnaces Steam jets, etc
.44 Fans See 621.62
.45 Airways Stoppings Regulators
.46 Mesurement of ventilation
.47 Lighting Safety lamps, etc.
.5 Drainage
.51 Theory of infiltration of water
.52 Natural drainage
.53 Cornish pumps See 621.6
.54 Steam pumps See 621.64
.55 Hoisting of water
.56 Dams and watertight linings See also 622.28, Timbering
.57 Acid waters
.6 Extraction Hoisting and transportation
.61 Handling mineral in working place
.62 Underground roads
.63 Mine cars Trams, etc.
.64 Gravity roads and planes
.65 Tramming and animal haulage See 625.7
.66 Mechanical haulage
.67 Hoisting engins Drums Ropes Whims
.68 Cages Skips Buckets
.69 Surface transportation
Including mineral roads, wire ropeways, transhipment, loading and unloading, etc.
.7 Mechanical preparation Ore dressing
.71 Theory Preliminary operations
.72 Hand dressing
.73 Crushing Stamping engin
.74 Screening
.75 Jigging Ore concentrators
.76 Slime treatment
.77 Magnetic separation
.78 Coal washing
.79 Dressing works
.8 Dangers and accidents See also 613.6 Hygiene; 331.82 Laboring classes
.81 Explosions of firedamp
.82 Mine fires
.83 Crushing and fall of ground
.84 Flooding of mines
.85 Accidents to miners
.86 Rescue and relief
.87
.88
.89

623 Military and naval engineering

For military and naval science, maneuvers, strategy and tactics see 355-359

SUMMARY

623.1 Fortifications: field and permanent
.2 Siege operations: mines, etc.
.3 Defensiv operations
.4 Ordnance and projectils
.5 Gunnery
.6 Military roads and bridges
.7 Military signals: telegraf, ballooning, etc.
.8 Naval architecture
.9 Armor Torpedoes, etc.

.1 Fortifications: field and permanent
.11 Principles of fortification
.111 Profiles
.112 Plans
.113
.114 Defilading
.115
.116 Details: bastions, curtains, glacis, etc.
.117 Accessory defenses
Flanking defenses; outworks, palisades: moats, obstacles, etc.
.12 Construction of permanent fortifications
.122 Earthwork
.123 Masonry: concrete
.124 Armor
.13 Systems of forts
.131 Central fort
.132 Citadel
.133 Fortified positions
.134 Barrier forts
.15 Temporary fortifications Field works
19 Special forts
Divided like 930-999; e.g. history of the fortress of Gibraltar 623.19468
2 Siege operations Mines
Class here only engineering operations. For conduct of sieges, see 355 44
.21 Siege works
Investment, establishing camps
.22 Circumvallation and countervallation
.23 Establishing parallels and advancing batteries
.24 Zigzags Saps
Trenching, blindage, gabionades
.25 Breaching batteries Breaches
For assaults see 355.44
.26 Land mines and torpedoes
See also 623.9 Submarine torpedoes
.27 Other means of demolition
Firing and exploding devices

623.3 Defensiv operations
For maneuvers see 355.44
.34 Defense of trenches
.35 " breaches
.36 Countermines
.4 Firearms, ordnance and projectils Arsenals
Including ammunition in general and fireworks. For manufacture of explosivs see 662. For general history of war customs and wepons, and of ancient engins of war see 399. Class here wepons for gunpowder and similar explosivs
.41 Artillery material
Clast according to use
.412 Field artillery material
413 Mountain " "
414 Landing " "
.415 Siege " "
.416 Fortress " "
Including large guns (fortress, coast and naval) considerd together
.417 Coast artillery material
.418 Naval " "
.42 Guns
.421 Guns according to form and construction
See also 623.5 Gunnery; 623.47 Gunmaking
1 Early forms: bombards, culverins, etc.
For blunderbuses and other early forms of small arms see 623.441
2 Guns proper or long cannon
3 Short cannon or howitzers (shell guns)
4 Mortars
5 Guns made in a single piece
6 Bilt up guns
61 Hoopt guns
62 Jacketed guns
63 Hoopt and jacketed guns
64 Wirewound guns
.422 Guns according to mode of loading and operating
1 Muzzleloading guns
2 Breechloading "
3 Rapidfire guns
4 Machine "
42 Multiple tube guns
Gatling guns, Hotchkiss revolving cannon
43 Single tube guns
[illegible] Automatic and semiautomatic guns
Hotchkiss, Maxim, Colt
123 Form and interior arrangement of guns
1 General plan
2 Outside form
3 Hooping
4 Jacketing
5 Bore
6 Rifling
7 Chamber

623.424 Breech and firing mechanisms
1 Breech closing apparatus
11 Block
12 Wedge
13 Screw
[illegible] Firing apparatus Vent Vent bushing Firing pin
3 Safety apparatus: gas checks, etc.
.425 Sighting attachments
For detacht apparatus, see 623.462
1 Backsight, sliding notch, eyehole, etc.
2 Sight Foresight
.43 Mounts and carriages
Including their parts and accessories
.431 Field and mountain mounts and carriages
1 Field mounts
[illegible] Mountain mounts
3 Machine gun mounts
4 Caissons and limbers
5 Ammunition chests
6 Battery carriages (i. e. tenders)
.432 Siege mounts and carriages
1 Siege gun mounts
2 Howitzer mounts
3 Mortar mounts
4 Siege carriages (i. e. tenders)
.433 Fortress, coast and naval mounts
For accessories see 623.435
1 Casemate mounts
Pedestal and pivot mounts
2 Barbet mounts
3 Disappearing mounts
4 Turret mounts
.434 Naval mounts
For discussion limited to naval use
.435 Mechanism of mounts
Platforms, circular pintle block and pivots
1 Checks and transoms
[illegible] Chassis and crosshed slides
3 Mechanism for maneuvering and going into battery: wheels, trucks, rollers
4 Sighting apparatus
5 Recoilchecking mechanism Breeching Vent plug
6 Recoil mechanism Brakes
61 Automatic friction recoil checks
62 Screw brakes
63 Hydraulic brakes
64 Pneumatic "
65 Trail spades
7 Reactionary mechanism
Devices for restoring guns to firing position after recoil
71 Spring recuperators
72 Pneumatic recuperators

623.436 Maneuvering appliances
- 1 Levers, handspikes, roller handspikes
- 2 Breeching tackle
- 3 Shot barrows, shell barrows
- 4 Projectil hoists

  See also 621.86 Hoisting and conveying machinery

.44 Small arms

Mechanism and military efficiency
For small arms practis see 355.5
" manufacture of small arms see 683
" wepons prior to firearms see 399

.441 Primitiv forms of firearms

Blunderbus, harquebus, etc.

.442 Rifles, muskets, carbines, musketoons

Including also bayonet as part of the complete wepon

- 1 Single shot, muzzleloading
- 2 " " breechloading
- 3 Repeating rifles
- 31 With magazine
- 32 " loader
- 4 Automatic guns

.443 Pistols and revolvers
- 1 Single shot pistols
- 3 Automatic pistols
- 4 Revolvers

.444 Side arms Cutting arms

For halberds, axes, dirks, poniards, and other antiquated forms see 399

- 2 Swords
- 3 Bayonets: saber bayonets, sword bayonets
- 4 Lances

.45 Ammunition and fireworks

Kinds and relativ efficiency for military purposes. For details of manufacture of powder and explosivs see 662

.451 Artillery projectils

Including exploder as part of projectil

- 1 Spheric projectils
  - 11 Solid shot
  - 12 Bombs
  - 13 Shells: early shrapnel
  - 14 Grenades
- 2 Elongated projectils
  - 22 Case shot: canister and grape
  - 25 Elongated bullets
  - 3 Shells
    - 4 Modern shrapnel
    - 5 Segment and ring shell
    - 6 Incendiary shells

      For illuminating shells see 623.45446
    - 7 Shells with high explosiv Torpedo shells
  - 8 Armorpiercing shells and other projectils

623.452 Powders Explosivs

See also 662.2 Powder manufacture

- 1 Gunpowder
- 2 Other powders
- 9 Other explosivs

.453 Fixt ammunition

.454 Exploding devices and fireworks

See also 662 Pyrotechnics, explosivs, matches, etc.

- 1 Matches and fuzes
  - 11 Slow matches and fuzes
  - 12 Quick matches and fuzes
- 2 Exploders
  - 21 Percussion caps
  - 22 Primers
  - 23 Projectil fuzes
  - 24 " detonators
  - 29 Other exploders etc.
- 3 Fireworks, bombs etc.

  For torpedoes see 623.9
  - 31 Incendiary devices
  - 32 War rockets
  - 33
  - 34 Petards
  - 35 Camouflets
- 4 Illuminating fireworks
  - 41 Links
  - 42 Torches
  - 43
  - 44 Signal rockets
  - 45
  - 46 Illuminating projectils Star shells

.455 Small arms ammunition

For powder see 623.452

- 1 Spheric bullets
- 2 Elongated bullets Minie ball
- 3 Cartridges Fixt ammunition
  - 32 Jacketed bullets
  - 35 Prohibited bullets: dumdum or expanding; explosiv

    Those prohibited by Hague conference

.46 Artillery accessories

.461 Battery tools

.462 Instruments
- 1 Sighting apparatus: rear sight, quadrants, elevating arcs, range scales
- 5 Range finders

.463 Implements: rammers, swabs, levers

.47 Arsenals

Subdivide like 621.7

623.48 Preservation and care of munitions
Reception, tests, accidents
.481 Preservation
1 Magazines
2 Guns
3 Carriages
4 Small arms
.482 Reception Tests Buying
1 Inspection
2 Acceptance tests
3 Function of commissions Experimentation
.483 Accidents Explosions; preventiv mesures
1 Accidents to persons
2 " material
21 Accidents to arms
22 " in transit
Damage to boats, cars, etc.
23 Accidents to structures
.5 Gunnery
Theoretic and experimental; efficiency of artillery system as a whole. See also 'Projectils' in Relativ index following Tables
.51 Theory and strength of guns
.52
.53 Interior ballistics
Effects of powders; experiments
.54 Exterior ballistics
.55 Sighting and firing
.551 Field and mountain guns
.552 Siege guns
.553 Fortress, coast and naval guns
.554 Naval target practis
.56 Effect of projectils
.561 On living targets: impact, gases
.562 " inanimate targets
1 Earthworks
2 Masonry Concrete
3 Armor
.57 Reaction of mounts
.571 Rigid rolling mounts
.572 " sliding "
.573 Theory of braking
.574 Mechanically controld recoil
.575 Nonrecoil mounts
.58 Traction of carriages

623.6 Military roads, bridges and bildings
From the special point of view of military servis. For construction in general see 690.1 and 721; for bridges, roads and railways see 624 and 625; for seacoast walls, see 627 Hydraulic engineering
.61 Military bildings
Duplicating 725.18 for military engineers. Libraries should use 725.18 and leav 623.61–.614 vacant; for construction of fortifications see 623.1
.611
.612 Barracks
.613 Military establishments
Groups of bildings forming a unit; e.g. military schools, army posts
.614 Magazines
.62 Military roads and thorofares
See also 625.7 Construction of roads
.63 Military railways
See also 625 Railway construction
.631
.632 Destruction of tracks
.633
.634
.65 Military bridges
For permanent bridges see 624
.651
.652 Pontoon bridges
.653 Trestle bridges
.654 Other temporary bridges
.66 Bridge material
.7 Military signals Aeronautics, etc.
Special military applications of science
.71 Military topografy
Special processes and instruments. See also 526 Topografy in general
.72 Photografy
Reproductiv processes applied to military art. See also 770 Photografy
.73 Signaling Military telegrafy
.731 Visual signals: heliografs, searchlights, etc.
.732 Military telegrafy
Both wire and wireless. See also 621.382 and 654 Telegrafy
.733 Military telefony
Both wire and wireless. See also 621.385 and 654.6 Telefony
.74 Military aeronautics
For principles see 533.6 Aeronautics: for construction of airships see 629.13
Class here only military utility
.741 Machines lighter than air
.742 Free balloons
.743 Dirigible balloons
.744 Captiv balloons
.745
.746 Machines hevier than air: aeroplanes
.749 Other topics
.75 Military sanitation
Camp sites: soil, water, drainage, etc. For personal hygiene see 613.6

623.8 Naval architecture Boatbilding

Including warship accessories. Class here comprehensiv works on shipbilding. Subdivide with 001–009 and 02–09 like 620. For ship design and theory see 623.81 Design; for principles of flotation see 532.3 Floating bodies

.81 General Design

Class here also separate discussion of such general questions as flotation, displacement, stability, strength, resistance, propulsion and design; i. e. speed and power, coal endurance and steaming radius, passenger or cargo capacity, etc.

.82 Types of ships and boats

.821 Primitiv and early forms

2 **Rafts, catamarans, dugouts; galleys**

.822 Modern sailing vessels

5 **Caravels, sailing yachts, etc.**

See also 797.14 Yachting; 623.824 Power yachts

.823 Engin driven vessels

Steam, internal combustion, electric, etc.

2 **Tugs and lighters**

4 **Ferry boats: passenger, freight and train**

.824 Passenger and cargo vessels

River, lake or ocean liners; power yachts, etc. For tugs, ferryboats, small motor boats, etc. see 623.823

.825 Warships

Fighting vessels: battleships, cruisers, gunboats, monitors, torpedo boats, submarines. For sailing men-of-war see 623.822

.826 Other government vessels

Transports, hospital ships, store and fuel ships (supply, food, refrigeration, ammunition ships; colliers, oilers, mineplanters, etc) repair ships, lightships and lighthouse tenders, police boats, revenue cutters, fish commission boats, fireboats, etc.

.828 Other power vessels

Ships for cable laying, icebreakers, trawlers, etc. For dredges see 627.7

.829 Other boats

Flatboats, scows, lighters, canal boats, barges, rowboats and canoes, lifeboats, surf boats

.83 Appliances peculiar to shipbilding

Model tanks and experiments, including also Froude's tests on full size ships; launching ways and launching; dry or graving docks; moldloft and scriveboard

.84 Hull and its accessories

Structural: watertight compartments; systems of construction (wood, composit, iron and steel), structural details (framing, bulkheds, etc.)
Nonstructural: joinery, nonstructural decks

.85 Hull accessories: masts and spars; rudder and steering gear; drainage, etc.

Lighting, ventilating, heating, refrigerating; electric plant and lighting for ship installation only; see also 621.3 Electric engineering
Ship fittings: doors, hatches, etc.

.86 Equipment and outfit

Superadded, not bilt in, but necessary for effectiv use of ship
Sails and rigging; anchors, chains, cables, hawsers; compasses, sounding machines, speed logs; boats, rafts, life preservers, buoys
Furniture, saloon and cabin furnishings; table and galley (kitchen) outfit
See also domestic economy, 645

.87 Propelling machinery

Vibration and balancing. For theory of propulsion see 623.81
See also 621.12 Marine engins; 621.165 Steam turbins; 621.18 Boilers

.9 Armor and armament

Distribution, armoring; proper hight, etc; battery
For manufacture of armor plate see metallurgy, 669.1 Iron and steel

.95 Torpedoes Launching tubes and other accessories

624 Bridges and roofs Viaducts

Subdivide if wisht like 620.1–.9 and 620.0

.1 General

.12 Purpose

Highway, foot bridges, etc. regardless of structural type

.13

.14 Location Approaches

.15 Foundations

General works Foundations of bildings are better clast 721.1

.151 Foundation bed Nature of soil

.152 Excavation, timbering, shoring

624.153–.157 may be subdivided like 721.13–.17

.153 Material for bilding foundations

For material for superstructure see 624.01

.154 Pile foundations: general Material

.155 " " methods of sinking

.156 Platform foundations

.157 Subaqueous foundations

Processes: cofferdam, caisson, freezing

.16 Piers and abutments

Wood, masonry, metal. Subdivided like 620.1

.17 Stresses and strains

General; if limited to a special type, class with that type

.171 General Computation of stresses

.172 Loads

Ded, live or moving loads

.173 Highway

.174 Railway

.175 Wind pressure

.176 Working stresses

.2 Girders and girder bridges

Including floor systems; see .25 below

.21 Girders

Continuous; discontinuous or independent

.22 Solid beams

.222 Wood

.227 Metal

.23 Plate girders Lattis girders

.24 Trestles

.25 Floor systems

.27 Girder bridges

.3 Trusses and trussed bridges

Constructed of systems of braced girders

.31

.32 Simple truss

.33 Continuous truss

.35 Cantilever truss Balance bridge

.4 Tubular bridges Box-girder bridge

624.5 **Suspension bridges**
.52 Flexible Rope bridge
.53 Rigid
.55 Cables
.56 Towers or piers
.57 Anchorage
.6 **Archt bridges**
.62 Wood
.63 Masonry
Stone, brick, concrete, reinforced concrete
.67 Metal: iron and steel
.68 Hinged arch
.7 **Compound structures**
Structurally compound; e. g. plate girder and suspension, trussed arch
.8 **Movable bridges Drawbridges**
.82 Bascule: counterpoise, folding
.83 Swing: pivot, swivel, turning
.84 Lifting
Whole bridge lifted vertically
.85 Rolling
Floating; see also 624.87
.86 Aerial and other traveling bridges
.87 Pontoon bridges: floating, boat or raft
.9 Roofs
For other relations see Roofs in Relativ index

625 Railroad and road engineering
May be divided by 0 and 00 like 620. For railway operation see 656
.1 **Way and works**
.11 Route
Reconnaissance, preliminary and locating surveys; center line; grades; curvs; switchbacks
.12 Permanent way Roadbed
Earthwork: surveys, computation, classification, cuts and fills. Drainage
.13 Structures: tunnels, culverts, snowsheds
Class here general works on tunnels; see also mining 622.26
For bridges and trestles see 624; for transportation bildings see 725.3
.14 Track: ballast, ties and tieplates, strains
Including general works covering also rails and their accessories
.146 Monorail tracks
.15 Rails and accessories
Rail braces, rail joints, chairs, track bolts, nut locks, spikes
.16 Track accessories
Turnouts, switches, sidings, bumping posts; crossings; signals; turntables; ashpits, track tanks; cattle gards
.17 Road maintenance and repair Materials
.18 Road equipment
Fences, gates, platforms, track scales, yards, etc. Stations, depots, shops etc. considerd as road accessories
For stations, depots, roundhouses, etc. see 725.3
For shops see 621.7
.19 Other topics

625.2 **Trains and accessories**
Interrelations of road and rolling stock; strain and wear
For car bilding see 699 For time tables, traffic, etc. see 656
.21 Running gear
Trucks, bogies and Bissell bogies; wheels, axles, tires, balancing; axle boxes and gards; lubrication
Suspension, bearing springs
.22 Cars See also 699 car bilding
Transverse section of car and track gage
Effect of length of car in rounding curvs
.23 Passenger cars
.24 Freight and combination cars
.25 Brakes Buffers and couplings
.26 Power requirements
Length and weight of trains. Speed
See also 621.13 Steam engins; 621.3342 Electric engins; 621.43 Gas engins
.27
.28 Monorail rolling stock
.3 **Inclined and mountain railways**
.32 Funicular railways
.33 Rack railways
.4 **Elevated and underground roads, subways**
.5 **Cable roads**
.6 **Street railways, tramways**
See also 621.33 Electric traction; 625.4 Elevated and underground railways; 625.5 Cable roads; 699 Carbilding
.7 **Roads, highways, streets**
See also local government, 352.7 Streets, highways; for pavements see 625.8
.71 Road systems
.711 Rural
.712 Urban
.72 Location
Preliminary and locating surveys Grades Curvs
.73 Roadbed, foundation
Earthwork Subsurface drainage
.74 Dirt roads Crowning Drainage
.75 Surfacing Oil and other binders
.76 Maintenance and repair
.77 Trees Parkings
.78 Subsurface condits, pipes, etc.
Sewers; water, steam and gas pipes as affecting roads
.79 Other topics

625.8 **Pavement**
.81 Flagstone
.82 Stone blocks and brick
Including cobblestone. Requirements of paving stones
For vitrified brick see 625.87
.83 Wood pavements Corduroy, plank, blocks
.84 Concrete pavements
.85 Asfalt "
.86 Stone roads
Macadam, telford and other broken stone processes
.87 Metal, vitrified brick, reinforced blocks
For other brick pavements see 625.82
.88 Sidewalks May be divided like 625.81–.87
.888 Curbs
.89 Other topics
.9 **Ship railways**

626 Canal engineering

.1 **Route**
.2 **Water supply**
.3 **Size and shape**
.4 **Locks**
.5 **Lifts and inclined planes**
.6 **Canal boats: size, shape, etc.** See 623.829 Shipbilding
.7 **Towing; power, etc.**
.8 **Irrigation canals and other irrigation works**
.9 **Ship canals**

627 River, harbor, and general hydraulic engineering

See also 624.157 and 721.17 Subaqueous foundations

.1 **Rivers: force of water, discharge, bars**
River improvement
.2 **Harbors Breakwaters**
.3 **Docks Piers Quays Shipping facilities**
.4 **Dikes and levees, embankments**
.5 **Other protection and reclamation of land from tides and waves, drainage** For agricultural drainage see 631.6
.6 **Jetties**
.7 **Dredging Dredging machinery**
.8 **Dams**
.9 **Lighthouses Buoys**

628 Sanitary engineering Waterworks

.01 Theories, utility .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Study and teaching .08 Polygrafy .09 History and description of sanitation and general sanitary works, divided geograficly like 930–999

.1 **Water supply of towns** For isolated supply see 628.7
.11 Sources of water supply
Lakes, rivers, springs, wells, and pumping
.12 Pumping vs gravitation systems
Pump well, standpipe, high servis, Holley system

628.13 Storage and servis reservoirs
.14 Condits, aqueducts, tunnels See 625
.15 Mains and servis pipes Freezing, iron, led
.16 Impurities and their removal: filter basins, etc.
.17 Public (sprinkling, fire, flushing), manufacturing, and domestic use and waste; meters
.2 **Sewerage works**
.21 Sewerage system
.211 Combined system
.212 Separate system
.213 Liernur system
.214 Shone system
.215 Berlier system
.216 Other systems
.217 Outfall
.218 Depth and alinement
.219 Grade and velocity
.22 Shape and size of sewers
.221 Stormwater flow
.222 Ordinary flow
.223 Circular section
.224 Ordinary eg shape
.225 Other eg shapes
.226 Other forms
.228 Formulas for size
.23 Ventilation of sewers
.231 Openings in streets
.232 Lamp posts
.233 Flues in houses
.234 Pipes on houses
.235 House drains
.236 Chimneys and furnaces
.237 Charcoal and chemicals to deodorize sewer gas
.238 Special mechanism
.239 Special construction
.24 Design and construction of sewers
.25 Sewer appurtenances
.251 Junctions
.252 House connections
.253 Manholes and lampholes
.254 Flushing shafts and fixtures
.255 Catch basins and inlets
.256 Traps and ventilators
.257 Valvs and penstocks
.258 Overflows and regulators
.259 Miscellaneous

628.26 River crossings
.27 Intercepting and outfall sewers
.28 Reservoirs and tank sewers
.29 Pumping stations
.3 Sewage and its disposal
.31 Physical properties of sewage
.32 Deodorization and disinfection of solids and liquids
See also 628.237
.33 Subsidence
.34 Precipitation
.341 Precipitation tanks
.342 Mixing machinery
.343 Filter presses
.344 Precipitation by salts of alumina
.345 By lime
.346 By salts of iron
.347 By other methods
.348 Disposal of sludge
.349 Miscellaneous
.35 Filtration
.36 Irrigation
.361 Broad irrigation
.362 Ridge and furrow irrigation
.363 Flatbed irrigation
.364 Subsurface irrigation
.365 Intermittent downward filtration
.366 Carriers and appurtenances
.367 Drains and drainage of sewage farms
.368 Filtration areas
.369 Miscellaneous
.37 Sewage farming Required modifications of ordinary methods
.38 Sewage manures See also agriculture, 631.8425
.39 Discharge into sea, etc.
.4 Sanitation of towns
.41 Middens and privies
.42 Pail systems
.43 Earth closet systems
.44 Domestic ashes, garbage and refuse
.45 Public urinals and latrines
.46 Street cleaning and sprinkling
.47 Pavements and subways
.48 Trees in streets and squares
.49 Manufacture of fertilizers from town wastes

628.5 Industrial sanitation
.51 Factories and trades
.511 Prevention of dust and fumes
.512 Protection of throat and eyes
.513 Protection against infection
.519 Special trades
.52 Effluvium nuisances
.521 Situation of works
.522 Use of high chimneys
.523 Condensation in water
.524 Combustion in furnaces
.529 Special trades
.53 Smoke nuisance
.538 From steam generators
.539 From special industries
.54 Disposal of solid and liquid wastes
.541 Discharge into streams
.542 Absorbing wells and burial
.543 Clarification by subsidence
.544 Chemical treatment
.545 Filtration
.546 Purification by the soil
.549 Special methods and special trades
.6 House drainage
.7 Rural water supply: villages and country houses
.8 Ventilation and heating
This hed is chiefly for ventilation. Most matter on heating goes in 697
See also Heating, Ventilation, in Relativ index following tables
.9 Lighting
For other relations and applications see Lighting in Relativ index

629 Other branches of engineering

.1 Automotiv industries
Air, land, water, treated together; for water craft alone see 623.8
.13 Aeronautics Aerial navigation
Usual form division .09 to include general accounts of voyages, but class special voyage with type of machine used
.141 Aerostatics
.142 Aerodynamics, bird flight, soaring
.143 Meteorologic conditions; wind currents, etc.
.144 Aerodromes, flying grounds, parks
Experiment stations, landing places, sheds, hangars
.145 Navigation
Atmospheric roads, airways; aerial maps, topografy; airsickness; disasters
.148 Laws, international and local

629.15 Aircraft lighter than air Aerostation
.151 Nondirigible
Hot air balloons, montgolfières; pilot balloons; balloon sonde; kite and captiv balloons
.154 Dirigible Airships
.155 Rigid
.156 Semirigid
.157 Nonrigid
.16 Construction
.161 Gas envelop, material
Balloon fabrics, netting, gas used, apparatus for inflation
.162 Car or basket, cabin, seats
Method of attaching to gas envelop
.163 Motors
See 621.4387
.164 Propellers
.165 Steering apparatus
.166 Balancing: gyroscope
.167 Landing apparatus: anchors, parachutes
.17 Aircraft hevier than air Aviation
.171 Kites
.172 Gliders
.173 Monoplanes
.174 Biplanes
.175 More than 2 planes
.176 Helicopters
.177 Ornithopters or orthopters
179 Special adaptations: hydroaeroplanes, aviets
.18 Construction
.181 Structure
Planes, wings, ailerons, etc.
.182 Seats, cabin, etc.
.183 Motors
See 621.4387
.184 Propellers
.185 Steering apparatus
.186 Stability, balancing apparatus
.187 Starting and landing apparatus
.19 Applications of aeronautics
.2 Motor vehicles, automobiles
Mechanicly propeld and motor vehicles for highways: bicycles, motor cycles etc. For highway vehicles for separate tractors (animal or mechanic) see 684 Expansion of this subject is in hands of a special committee but has not been brought to a stage warranting publication in this edition

630 Agriculture Agronomy

SUMMARY

631 Farmsted
632 Hindrances Protection
633 Field crops
634 Fruits
634.9 Forestry
635 Garden crops
635.9 Floriculture
636 Domestic animals
637 Dairy and dairy products
638 Useful insects raised or exploited
639 Hunting, trapping, fish culture

.1 Rural life
Rural exodus. Improvement of country life conditions
.2 Compends
.23 Agricultural physics
.24 " chemistry
.28 " botany
.29 " zoology
Only for general treatises. Those relating to a special subject ar clast with the subject: e. g. chemistry of milk 637.127
.3 Dictionaries, cyclopedias
.4 Essays
.5 Periodicals
.58 Yearbooks Directories
.59 Kalendars Almanacs
.6 Societies, clubs, conferences
Farm bureaus
.61 Official institutions; government departments
.62 Voluntary associations
Not under government control Cooperativ agriculture
.621 International (International institute of agriculture)
.624–9 Associations divided by country
Subdivided like 940–999: e. g. 630.6244 French agricultural societies; 630.6273 Patrons of Husbandry, including state and local granges; Farmers alliance, etc.
Societies of limited scope ar clast with their subjects; e. g. horse breeders associations 636.106
.63 Congresses, conferences, temporary organizations
.7 Study and teaching
For agriculture as a school subject see 375.63; for school gardens see 372.36
.71 Instruction, schools
.711 Colleges Alfabetic; but may be subdivided like 940–999 if preferd
.712 Schools Arranged like .711 colleges
.713 Short courses
Summer
5 Winter
.714 Correspondence courses
.715 Institutes Farmers institutes
.716 Courses in nonagricultural institutions
.717 Extension work
County agent, boys and girls clubs
.719 Other instruction
.72 Research work Experiment stations
.74 Museums, exhibits
.77 Special pedagogic methods
.775 Normal training classes
.79 Competitions, prizes, etc.
.9 History and general local treatment
Divided like 930–995

631 The farm, farmsted

SUMMARY

631.1 Farm economics
.2 " bildings
.3 " machinery and tools
.4 Land, soil, soil chemistry
.5 Farm operations
.6 Drainage and reclamation
.7 Irrigation and conservation of moisture
.8 Fertilizers
.9 Climate, roads, etc.

.09 **Geografic distribution of cultivation**
.091 Zones and physical regions
1 Arctic regions
2 Temperate zone
3 Tropics
4 Mountains

631.1 Farm economics
Farm and estate management

.11 Selecting and acquiring a farm
Land settlement guides
Location: nearness to market; means of communication, by water, by land (railways, highways), climate and rainfall

.112 Purchase
Cost, valuation, taxes

.113 Rent

.114 **Share systems** (Métayage)
See also 631.1153

.115 Systems of working a farm
1 **Owner his own farmer**
2 **By a manager**
3 **Share system**
From owner's point of view
See also 631.114 from worker's point of view
4 **Renting**
From owner's point of view
See also 631.113 from renter's point of view

.116 Scale of farm
1 **Large farm**
2
3 **Small farm (One-man farm)**

.12 Laying out farm
Locating bildings, fields, farmsteds, roads and lanes

.13

.14 Types of farms

.141 Crop farm
See 633 Field crops, 634 Fruits, 635 Garden crops

.142 Vegetable farm
See 635 Garden crops

.143 Fruit farm
See 634 Fruits

.144 Woodlands
See 634.9 Forestry

.145 Stock farm
See 636 Domestic animals; 637.113 Dairy farms

.146 Fish culture in ponds
See 639 Hunting, trapping, fishing

631.16 Finances and accounts Bookkeeping records

.17 Expenses

.171 **Buying supplies Purchases**

.173 **Wages**

.175 **Insurance: bildings, stock, crop**
See also Insurance business 368.5

.177 **Packing, shipment**
For methods see 631.564

.18 Returns Selling products
Marketing

.2 Farm bildings
For architecture, see 728.67 Farm houses; 728.9 Outbildings

.21 Houses Dwellings

.22 Barns Poultry houses Stables

.23 Granaries Silos

.24 Carriage houses

.25 Machine sheds

.26 Other bildings

.27 Fences, walls, hedges

.28 Roads, bridges, etc.

.3 Farm machinery Tools, appliances, etc.
Care and repair of farm machinery. Catalogs of machinery, etc.

.31 Clearing and soil working: general tools

.311 Digging tools, machines, etc.
1 **Spade: turf, ditching, post, polisht-drain, longhandled garden spades**
Shovel: prongd shovel For steam shovel see 621.865
Spud
2 **Small tools**
Trowel, for mason's trowel see 693. Dibble, dibber or dibbler. See also 631.3311 Seeders
3 **Posthole digger**
Posthole auger or borer. Spudding bit
4 **Forks; for digging, etc. Dung-fork**
For hay forks, pitchforks, see 631.3535
5 **Digging machines**
Spaders, rotary spaders, horse shovel, road scraper
6 **Crow or crowbar**
Pick. See also mining picks 622
Pickax, mattock, grubbing hoe, grubbing ax
7 **Stump extractor or puller Stone gatherer Bush syths**

.312 Plows
1 **Common plow; walking plow; hand plow**
2 **Riding plow; sulky plow**
Double plow, double-furrow plow, 2-furrow plow
Balanst plow Gang plow, multiple-furrow plow
3 **Power plow**
Steam plow, traction engin, stationary engin; oil or gas engin; electric

631.3124 **Reversible plow, turning moldboard plow**
Sidehil or hilside plow, turn-wrest plow, one-way plow, dril plow, also sometimes called double plow and swing plow

5 **Breaking plow**
Paring plow, sod plow, prairie plow, skim plow

6 **Pulverizing plow, stubble plow, digging plow**
Subsoil plow, mole plow

Double moldboard plow, doublebrested p'ow
Middle "buster" or burster, middle breaker

7 **Other special plows**
Vinyard plow — Stump jumper, or stumpjump plow
Seeding plow — Skim colter plow
Scooter — Bul-tung and ca'f-tung plow

8 **Disk plow**

.313 Harrows

1 **Smoothing harrows**
Bush harrows; plank-scraper; fixt and adjustable tooth, frame harrow

2 **Chain harrow**

3 **Spring-tooth harrow**

4 **Curvd knife-tooth harrow, pulverizer**

5 **Revolving harrow**

6 **Disk harrow: ful disk, cutaway**

7 **Spading harrow, scuffle harrow**

8 **Special uses**
Orchard disk harrow

.314 Rollers, etc.

1 **Rollers**
Wood, stone, metal. Hand, horse, riding, power

2 **Disk rollers**

3 **Clod crushers, clod breaker**

4 **Subsurface packer**

6 **Planker, plank drag**

.315 Hand gardening tools

1 **Hoe**
Draw, field, bayonet, garden

2 **Thrust, Dutch, push, scuffle, D hoe**

3 **Scarifier or scraper**

4 **Weeder**
Hand weeder, finger weeder, weed-hoe, weeding forceps, weeding fork, weeding iron, weeding pincers, weeding tongs

5 **Weed cutters**
Weed hook, weeding chisel, weeding shears

6 **Garden rakes: wood, iron**

.316 Cultivators

1 **Wheel hoe, hand cultivator**

2 **Horse cultivators**
Walking cultivators, horse hoe, shovel plow
Scarifier, scooter, scuffler, hasp, sweep, grubber

3 Riding or sulky cultivators
Balance frame

4 Surface or gofer cultivator
Heel scrape, scrape

5 Disk cultivator

6 Stalk cutter

631.33 Seeding and sowing machinery

.331 Seed sowers, seeding machines

1 **Broadcast sowers, seeders**
Hand machines

2 Walking

3 Riding

4 **Land and row markers**

5 **Furrow sowers** — **Drils**

6 Walking

7 Riding

8 **Special sowers**

.332 Planters

1 **Hand, foot**

2 **Walking**

3 **Riding**

4 **Check rowers**

8 **Special planters**

.333 Fertilizer distributers

1 **Hand machines**

2 **Walking**

3 **Riding**

4 Liquid fertilizer

5 Pulverized "

6 Farmyard manure, manure spreders

.334 Mixt spreders
Both fertilizer and seed

.335 Propagation apparatus
Cutting benches, layering pots, etc.

.336 Transplanters

1 **Ballers**

6 **Tree conveyers**

.34 Equipment for care of plants, trees, etc.

.341 Grafting, etc. implements and material
Budding knife, grafting knife, grafting wax

.342 Pruning

1 **Shears or pruner** — **Hedge trimmer**

2 **Knife or hook**

3 **Chisel**

4 **Bil hook**

5 **Ax or hatchet**

6 **Saw**

7 **Scraper**

.344 Protection and shelter
See also 632.1 and 632.9

1 **Bel glasses**

2 **Cold frames**

3 **Hot beds**

4 **Greenhouses**

5 **Forcing houses**

631.345 Supports
- 1 **Vertical cords and wires**
- 2 **Poles, stakes, stays, props**
- 3 **Trellises, espaliers**
  - Horizontal wires or cords
- 4 **Fruit walls**

.346 Receptacles: pots, boxes, etc.

.35 Harvesting

.351 Hand tools, primitiv tools
- 1 **Sickle, reaping hook, gras knife, gras hook**
- 2 **Syth**
- 3 **Cradle, cradle syth**

.352 Mowers
- 7 **Lawn mowers**

.353 Other haying implements
- 1 **Hay spreders, tedders**
- 2 **Hay rakes, gatherers, binders, windrowers**
- 3 **Hay loaders**
- 4 **Hay stackers**
- 5 **Hay forks and carriers**

.354 Reapers
- 1 **Self binders**
- 2 **Harvester** **Combined harvester and thresher**
- 3 **Heders** **Clover heders**

.355 Corn harvesters
- 1 **Corn shockers**
- 2 **Stubble cutters**
- 3 **Corn pickers**
- 4 **Strippers**
- 5 **Toppers**

.358 Harvesting tools for special crops
- 1 **Fruits, nuts**
- 3 **Legumes, peas, beans, etc.**
- 4 **Root crops, etc.**
- 5 **Fiber crops: cotton, flax, hemp**
- 6 **Sugar cane**
- 7 **Other crops**
- 8 **Tree products**
  - Maple (sap), pine (turpentine), gums, resins, gutta percha, etc.

631.36 Machinery, tools, etc. used in preparing for storage or transport

.361 Threshers, etc.
- 1 **Primitiv tools**
  - Flails, drags, wain
- 2 **Mechanical threshers**
- 3 **Huskers**
- 4 **Shellers**

.362 Cleaning
- 1 **Primitiv tools**
  - Shovel, siv, fan
- 2 **Winnowers, fanning machines**
- 3 **Sorters, sifters**
- 6 **Washers for roots and tubers**

.363 Silo machinery
  - Ensilage cutters

.364 Packing for transportation or storage
- 1 **Bundlers**
- 2 **Balers** **Baling presses**
- 3 **Bunchers**
- 4 **Packers: baskets, boxes**
  - See 631.3721

.37 Power, power transmission appliances Transport

.371 Motiv power
- 1 **Human power**
- 2 **Animal power**
- 3 **Water power**
- 4 **Windmils**
- 5 **Steam engins**
- 6 **Gas engins, oil and alcohol**
- 7 **Electricity**

.372 Tractors
- 1 **Steam**
- 2 **Gas, oil, alcohol**
- 3 **Electric**

.373 Transport appliances
- 1 **By carrying**
  - Baskets, boxes, bags, etc. handbarrows
- 2 **On animals backs: packs, saddlebags, etc.**
- 3 **Drags** **Sleds** **Stoneboats**
- 4 **Hand-carts, wheelbarrows**
- 5 **Wagons** **Chute wagons** **Drays**
  - Dumping wagons, hayracks, lumber wagons, trucks
- 6 Motor trucks
- 9 Other vehicles

.374 Harness Saddles

.38 Implements for care of farm animals

631.4 Land, soil
.41 Soil chemistry
Chemic properties and constitution of soil
.411 Composition according to geologic origin
.416 Inorganic chemistry
.417 Organic chemistry
.42 Analysis and experiments
Methods of investigation: chemic, mechanical
.43 Soil physics
.431 Specific weight (gravity) of soil
.432 Humidity
Water Ground water
Soil moisture: hygroscopic, capillary
Permeability Absorption
Deserts
.433 Atmosfere: air, gases
.436 Temperature
Warmth of soils
.44 Soil classification Adaptability
Alkali lands; soils for special crops, tobacco, etc.
.45 Soil fertility: maintenance, exhaustion
Reclamation Erosion
See also 631.8 Fertilizers
.46 Soil bacteriology: fungi, microbes, ferments, sterilization
For soil inoculation see 631.8472
.47 Soil surveys
.49 History
.5 Farm operations
.51 Soil preparation and working
.511 Spading, digging, forking
.512 Plowing, subsoiling
.513 Blasting, use of explosivs
.514 Harrowing
.515 Rolling, planking
.516 Hoeing, raking, weeding
.517 Cultivating
.52 Selection, breeding, etc.
.521 Selection
1 **Seed selection**
2 " **catalogs**
3 **Plant selection**
4 **Nursery catalogs**
.522 Plant breeding
Fertilization; sterility
.523 **Hybrids Crossing Creat'on of new varieties**
Sexual, asexual; binary, ternary, quarternary
Laws of hybridation; influence of female, of male
Abnormalities
.524 **Introduction of new kinds**
.525 **Acclimatization**

631.53 Methods of plant multiplication
.531 Seeds Seedage
1 **Sowing broadcast**
2 **Drilling, in rows**
3 **Planting in hils or separate seeds**
7 **Spores**
.532 Separation of growing plant
1 **Young bulbs, offsets**
Bulbels, bulbules or bulblet; separation of small from parent bulb
2 **Tubers**
Cutting into "sets" each with an eye
3 **Division or partition of tufted growing plants**
.533 Detaching of separate plants
1 **Suckers, root suckers, stem suckers**
2 **Runners, stolons**
3 **Proliferous buds**
.534 Layering
1 **Ordinary; each shoot makes one new plant**
2 **Multiple, serpentine, or trench**
3 **Mound or stool layering**
See also 631.5323
4 **Circumposition, potted, aerial, air or Chinese layering**
6 **Layering trees and shrubs**
7 " **vines**
.535 Cuttings
1 **Choice of cutting**
2 **Preparation for planting**
3 **Planting**
4 **Branch or stem cuttings**
5 **Short cuttings: cuttings of single eye or bud**
6 **Root cuttings**
7 **Leaf and bulb scale cuttings**
.536 Transplanting
For grafting and budding see 631.54
.537 Nurseries
For nursery catalogs see 631.5214
.538 Renewal of orchards, vinyards etc.
Renovating, reinvigorating
.54 Caring for plants
For protection against injuries, see 632
.541 Grafting
General teknic. Effect on fertility; on fruit. Overgrafting
For bridge grafting, sometimes called bark grafting, with reference to repairing injuries, see 632.8
1 **Selection of stock and scion, affinity**
2 **Age and season**
3 **Methods of grafting Scion grafting**
31 Cleft grafting
32 Splice " Whip grafting Tung grafting
33 Slip " Wire grafting
34 Saddle "
35 Veneer "
36 Bark "
In England and France called crown grafting, see 631.54142; and sometimes used to mean bridge grafting, see note under 631.541
37 Herbaceous grafting Green grafting

631.5414 **Grafting according to position of scion**
41 Root grafting
42 Crown "
See also 631.54136, note
43 Stem grafting (on main stem or trunk)
44 Top " (in top or branches)
5 **Bud grafting Budding**
Formerly called inoculation Flute grafting
6 **Grafting by approach, inarching**
7 **Binding and protecting grafts**
8 **Indoor grafting**

.542 Pruning
1 **Winter pruning**
11 Theories of pruning
12 Methods of pruning
13 Heading in
14 Thinning of branches
15 Scraping
17 Time to prune
2 **Summer pruning Work on green wood**
21 Pinching in
22 Nipping off buds
23 Clipping
24 Ringing, girdling
27 Thinning fruit
3 **Trimming (to secure definit shape)**

.543

.544 Protection and shelter
1 **Bel glasses**
2 **Cold frames**
3 **Hotbeds**
4 **Greenhouses**
5 **Forcing houses**
6 **Unheated houses**

.545 Retardation

.546 Training
1 **Vertical, poles, stakes, cords**
3 **Espalier or trellis training**
4 **Wall training**
5 **Arbor training**
6 **Cordon training**

.547 Stages of plant growth
1 **Seedling**
2 **Increase, growth**
3 **Maturity**
4 **Flowering**
Pollination; fertilization; pollen setting
5 **Fruitage**
6 **Ripening**

631.55 Harvesting
These numbers treat of the material operations of harvesting. Class anything about a definit crop under its special number; e. g. 633.11 Wheat crop. See also 631.56 for preparation of crop for market, 636.085 for preparation of food for cattle, etc. For farther preparation of agricultural products not usually done by the farmer at the present day, see the various divisions of commerce, technology and manufactures

.552 Mowing

.553 Hay making, stacking, etc.

.554 Reaping

.555 Corn harvesting

.556 Harvesting other special crops
For cutting and felling trees see 634.9 Forestry
1 **Fruits, nuts, etc.**
3 **Legumes: peas, beans, etc.**
4 **Root crops and tubers**
5 **Fiber crops: flax, hemp, cotton picking**
6 **Sugar cane, etc.**
7
8 **Saps, gums, resins, etc.**
9 **Other crops**

.56 Operations subsequent to harvesting
See note under 631.55

.561 Preparing grains
2 **Threshing, etc.**
3 **Husking corn, etc.**
4 **Shelling corn**

.562 Cleaning, etc.
2 **Winnowing**
3 **Sorting, sifting**
6 **Washing (roots, tubers, etc.)**

.563 Storing
Cutting green fodder and filling silos

.564 Packing
2 **Baling**
4 **Packing in baskets, boxes and barrels**

.565 Transport
In general libraries preferably clast under 380 or 656

.57

.58 Specia' methods

.581 Fallowing

.582 Crop rotation

.583 Intensiv farming

.584 Catch crop culture

.585

.586 Dry farming Deep soil culture

.587 Irrigation farming

.588 Application of special forces
1 **Electro culture**
2 **Radio "**

631.6 Reclamation Drainage
Agricultural engineering
.61 Initial operations
.611 Prairies
.612 Waste lands: rocks and bushes
.613 Hilsides: terracing
.614 Forests
.615 Marshes Swamps
.616 Lands under water Polders
.617 Deserts
See 631.7 Irrigation
.62 Drainage methods
Ditches Drains (open, coverd, tile)
.63 Drainage systems
Plans, layouts
.64 Dikes and embankments
.65 Water removal by machinery
Pumps, windmils, etc.
.7 Irrigation, water supply
Conservation of moisture. Rainfall, streams
.71 Source of water: wels, reservoirs
.72 Irrigating canals
.73 Systems of irrigation
Plans, etc.
.74 Mesure and distribution of water
.75 Cost of water
.76
.77
.78 Machinery
.79 Methods of conserving moisture
Mulching
See also 631.586 Dry farming; 631.8 Fertilizers, amendment of soils
.8 Fertilizers
.81 History, nature, uses
.811 Nutrition of plants; necessary principles
.812 Production, preparation, collection, conservation
.813 Composition
.814 Loss of fertilizing principles
.815 Economic value
.816 Use Methods of application and distribution
.817 Purchase Transport Cost
.818 Frauds Adulterations Control; legislation, inspection, analysis
Any special fertilizer may be subdivided like 631.81; e. g.
631.8525 Economic value of bone as a fertilizer
631.8733 Composition of seaweed

631.82 Mineral amendments
.821 Lime, gypsum, plaster
.822 Marl
.825 Sulfate of iron
.83 Potash fertilizers
.831 Wood ashes, vegetable ashes, burning turf
.832 Chlorids
.833 Sulfates
.84 Nitrogen fertilizers
.841 Ammonium salts
.842 Nitrates
1 Calcium cyanamid
5 Sewage
.843 Animal industry residues: skin, etc.
Slaughter house refuse. See also 631.852 Bone
.844 Fish
.845 Blood
.846 Tankage
.847 Vegetable nitrogen fertilizers
Cotton seed meal, castor beans, pomace
1 Nitrifying crops
2 Soil inoculation Bacteria Nitrification
For soil conditions see 631.46. Here clas introduction of bacteria to improve the soil Difference is same as between 631.45 Soil fertility and 631.8 Fertilizers
.848 Azotin, ammonite, etc.
.85 Fosforic acid
.851 Natural rock
.852 Bone
.853 Slags
.854 Guano
.855 Superfosfates
.86 Farmyard and stable manures, etc.
Subdivided like 636; e. g. 631.862 Cow manure
.87 Vegetable manures
.871 Muck
.872 Leavs
.873 Seaweed
.874 Green manures
.875 Vegetable compost
.876 Residue from vegetable industries
.88 Fertilizer experiments
.9 Climate, roads, etc.

632 Hindrances Protection

Including blights, pests and insects injurious to either plants or animals, but material relating to diseases of animals is better clast in 619 or 636.089 and *may* attract all matter specially relating to animals

.1 Elemental destruction Protection

.11 Low temperature, frost, freezing

.111 Methods of protection

.112 Warnings: wether bureau, thermometers

.113 Covering

.114 Artificial clouds

.115 Fires

.116

.117

.118 Repairing damages

.12 Excessiv heat and drout

.13

.14 Hail

.15 Lightning

.16 Wind and rain

.17 Floods, inundations

.18 Fires: forest and prairie

.19 Other destructiv agents

Earthquakes, fumes, gas, etc.

.2 Galls Cecidiology

No subdivision at present

.3 Bacteria and bacterial diseases

No subdivision at present

.4 Fungi

Divided like 589.2. See also 632.9

.5 Parasitic and injurious plants

.58 Weeds

.59 Plants injurious to animals

632.6 Injurious animals

Divided like 590, but clas injurious insects in 632.7 insted of 632.657

.7 Injurious insects

Divided like 595.7. See also 632.9

.71 Thysanura, etc.

Bristle tails or silver fish, spring tails

.72 Orthoptera

Grasshoppers, locusts, roaches, earwigs, leaf insects. See also 632.75 for leaf hoppers

.73 Pseudoneuroptera

Dragon flies, thrips

.74 Neuroptera

Lacewing flies, caddis flies

.75 Rhynchota, hemiptera

Afids (plant lice), biting lice, cicads, gras flies, scale insects, chinch bug, squash bug, mealy bug, leaf hoppers. See also 632.72 for other leaf insects

.76 Coleoptera

Beetles, flat-hed and round-hed borers, weevils, wire worms

.77 Diptera

Flies, mosquitos, gnats, midges, fleas, root maggots, army worm, Hessian fly

.78 Lepidoptera

Butterflies, moths, caterpillars

.79 Hymenoptera

Ants, bees, wasps; saw, gall, and ichneumon flies

.8 Diseases and injuries

Other than coverd by 632.2–.7

.9 Means of protection

Other than coverd by 632.1; e. g. netting and covers, screens, gards, scarecrows

.93 Plant quarantine

.94 Methods and apparatus

Spraying, dusting, fumigating

.95 Preparations and materials

Works dealing with 2 of the subjects, Insecticides, Fungicides and Antiseptics, ar clast here, but works dealing with Insecticides alone ar preferably clast under 632.7 and its subdivisions, with Fungicides alone under 632.4 and its subdivisions

.951 Insecticides

.952 Fungicides

.953 Antiseptics

.96 Natural enemies of pests

May be subdivided like 590

633 Field crops: grains, grasses, fibers, etc.

SUMMARY

.1 Cereals, grains
.2 Grasses
.3 Legumes
.4 Root crops
.5 Fiber crops
.6 Sugar plants and starch
.7 Alkaloidal plants
.8 Perfumes, spices, condiments, etc.
.9 Other plants

.1 Cereals Grains

.11 Wheat
.12 Buckwheat
.13 Oats
.14 Rye
.15 Corn, maize
.16 Barley
.17 Millet, sorghum, etc.
.171 Millet
.172 Panic gras
.173 Prosos
.174 Sorghum
For sweet sorghum see 633.62
.175 Broom corn
.176 Shallu
.177 Kafir, milo maize
White kafir, blackhul kafir, red kafir
.178 Durra, Jerusalem corn
Yellow milo, brown durra, white durra, rice corn, white Egyptian corn, Egyptian corn
.18 Rice
.19 Other

.2 Forage crops: grasses

Clas here general treatises on forage crops. Divided according to Häckel

.21 Blue gras *Poa*
.22 Orchard gras *Dactylis*
.23 Red top, bent gras *Agrestis*
.24 Timothy *Phleum*
.25 Cereal grasses Divided like 633.1 Cereals
.26 Other cultivated grasses
.261 Bermuda gras *Cynodon*
.262 *Bromus*
.263 Rye gras *Lolium*
.264 Fescues *Festuca*
.265 Oat gras *Arrhenatherum*
.266 *Paspalum*
.267 *Phalaris*
.27

633.28 Other grasses
Clas here only such grasses as hav no specific number
Divided like Häckel in 633.21–.267
.281 *Maydeae*
Zoysicae
Tristegineae
.282 *Andropogonae*
.283 *Paniceae*
.284 *Oryzeae*
Phalarideae
.285 *Agrostideae*
.286 *Aveneae*
.287 *Chlorideae*
.288 *Festuceae*
.289 *Hordeae*
Bambuseae

.3 Forage crops: legumes, etc.

.31 Alfalfa *Medicago*
Black medic, bur clover
.32 Clovers, berseem *Trifolium*
.33 Cowpeas *Vigna*
.34 Soybean *Glycine*
.35 Vetches *Vicia*
.36 Peanut *Arachis hypogaea*
See also edible seeds 635.659
.361 Sainfoin *Onobrychis*
.362 Kidney vetch *Anthyllis*
.363 Velvet bean *Mucuna*
.364 Japan clover *Lespedeza*
.365 Beggar weed *Meibomia* *Desmodium*
.366 Sweet clover *Melilotus*
.367 Lupin *Lupinus*
.37 Other legumes
.371 *Sophoreae*
.372 *Podalyrieae*
Genisteae
.373 *Trifoliae*
.374 *Loteae*
.375 *Psoraleae*
Galegeae
.376 *Hedysareae*
.377 *Valbergieae*
.378 *Vicieae*
.379 *Phaseoleae*
.38
.39 Other forage crops
Cactus, sunflower

633.4 Root crops

These ar practically all also clast as vegetables in 635.1 and .2 and for convenience of correspondence the same arrangement is followd here: 633.4 divided like 635.1 and 633.49 divided like 635.2

.41 Beet *Beta vulgaris*

See also 633.63 Sugar beet

.416 Half sugar mangel

.417 Mangel and mangel wurzel

.42 Turnip *Brassica rapa*

.425 Hybrid turnip

.426 Rutabaga *Brassica campestris*

.43 Carrot *Daucus carota*

.44 Parsnip *Pastinaca sativa*

.49 Tubers and bulbs

.491 Potato *Solanum tuberosum*

.492 Sweet potato *Ipomaea batatas*

.494 Jerusalem artichoke *Helianthus tuberosis*

.5 Textil fibers, cordage, plaiting, basket, etc.

.51 Cotton *Gossypium*

.52 Flax *Linum*

.53 Hemp *Cannabis*

For other fibers known as hemp, see 633.56–.57. Brown and Indian hemp ar indefinit. For 'true Indian hemp' see 633.567

.54 Jute *Corchorus*

.55 Ramie, China gras *Boehmeria*

.56 Other soft fibers

.561 China jute *Abutilon*

.562 Sunn hemp *Crotalaria*

Bengal, Bombay, Conkanee, false, Konkan, Madras or Salsette hemp or Travancore flax; also incorrectly Dekkan or Ambari hemp. Jubbulpore or Jabbalpur hemp

.563 Ambari or Dekkan hemp *Hibiscus*

Kanoff and Gambo hemp. Dekkan hemp also known in market as Binlipatam jute

.564 Majagua Paritium *Hibiscus tiliaceus*

.565 Olona *Touchardia*

.566 Colorado river hemp *Sesbania*

.567 Canada (or Indian) hemp *Apocynum*

True Indian hemp; also called black Indian hemp

.57 Hard fibers

.571 Manila hemp, Abaca *Musa*

.572 New Zealand hemp *Phormium*

.573 Mauritius hemp *Furcraea*

.574 Bowstring hemp *Sansevieria*

.575 Bromelia fibers

.576 Pineapple fiber *Ananas*

633.577 Agave fibers

1 **Sisal, henequen** *Agave rigida*

2 **Ixtle, istle, tampico** *Agave heteracantha*

Jaumave istle *Agave lophantha*

Tula istle *Agave Lecheguilla;* also *A. univittata, A. caerulescens, A. Kerchoevii*

Palm istle *Palma samandoca, Samuela carnerosana, Palma pita Yucca treuleana*

3 **Manila maguey** *Agave Cantula*

4 **Aloe fiber**

5 **Maguey fiber** *Agave atrovirens, A. collina, A. Potosina A. Tequilana, A. vivipara*

6 **Zapupe** "zapupe verde", "zapupe azul"

.58 Fibers for plaiting, basket and wicker work; ruf weaving

.581 Coir, coconut fiber *Cocos*

.582 Raffia *Raphia*

.583 Esparto, sparto gras, alfa, halfa *Stipa*

.584 Hat fibers

Jipijapa plant *Carludovica* Panama hats

Yaraw or hat palm Inodes

Straw, wheat, rye, barley, rice; in agricultural aspect better clast in 633.1

.585 Rushes and sedges *Juncus* *Cyperaceae*

.586 Reeds *Arundo*

.587 Bamboo

.588 Osier, willow *Salix*

Other woods, splints, rattan

.59 Fibers for other industrial uses

Filling or stuffing fibers, calking natural fibers: Cuba bast, etc. brush fibers broom root, paper materials, usually better clast from agricultural standpoint with other uses of the material

.6 Sugar plants and starch

.61 Cane *Saccharum*

.62 Sorghum *Andropozon sorghum Brot. S. vulgare Linn.*

.63 Sugar beets *Beta*

.64 Maple *Acer saccharum Marsh* *Acer saccharinum Wangenh*

.65 Palm

.66 Other sugar plants

.68 Starch

Single plants usually better clast from agricultural standpoint with other uses of these plants; e. g. wheat, corn, rice, potatoes, etc.

.7 Alkaloidal plants

For those chiefly medicinal see 633.88

.71 Tobacco *Nicotiana*

.72 Tea *Camellia thea Link* *Thea Linn.*

.73 Coffee *Coffea*

.74 Cacao, coco, chocolate *Theobroma*

.75 Poppy (opium) *Papaver*

.76 Kola or cola

.77 Maté *Ilex*

Brazil or Paraguay tea, Jesuits tea, yerba

.78 Chicory, succory *Cichorium*

633.8 Perfumes, seasonings, etc.
.81 Perfumery
See also 668.5
.811 Floral: rose, jasmin, violet
.812 Herbal: lavendar, rosemary, geranium, patchouli
.813 Citrin: bergamot
.814 Woods: sandalwood, cedar
.815 Roots: orris, vetiver
.816 Balms and gums: myrrh, benzoin
.82 Flavoring
See also 635.7 Condimental and sweet herbs
.821 Vanilla
.822 Mints *Mentha*
.823 Wintergreen *Gaultheria*
.824 Sassafras
.825 Ginger *Zingiber*
.83 Spices
See also 664.5
.831 Allspice
.832 Cloves
.833 Cinnamon
.834 Nutmeg Mace
.84 Condiments
See also 635.7 Condimental and sweet herbs
.841 Pepper *Piper*
.842 Red pepper, paprika *Capsicum*
.843 Chili *Capsicum*, specially *c. fastigatum*
.844 Mustard
.845 Capers
.846 Horseradish
.85 Oil producing plants
Usually better clast from agricultural standpoint with the purpose for which the oil or plant is used
.86 Vegetable dyes, dye plants
.861 Yellow
.862 Blue
.863 Red
.864 Green
.87 Tanning material
Usually better clast from agricultural standpoint with the tree or plant from which the material is derived
.871 Sumac Canaigre
.88 Medicinal plants
.89 Other

634 Fruits, orchards, vinyards, forestry

SUMMARY

.1 Pomaceous fruits
.2 Drupaceous "
.3 Citrous "
.4 Minor fruits
.5 Nut "
.6 Palmaceous fruits
.7 Small fruits
.8 Grapes
.9 Forestry

.1 Pomaceous or pome fruits
.11 Apple *Pyrus malus*
.12 Crab apple
.13 Pear *Pyrus*
.14 Quince *Cydonia*
.15 Medlar *Mespilus*
.16 Loquat, Japan plum *Eriobotrya Japonica*
.2 Drupaceous or stone fruits *Prunus*
.21 Apricot *Prunophora*
.22 Plum *Prunophora*
.23 Cherry *Cerasus*
.24 Racemose cherries: wild cherry, choke cherry, padins, sand cherry
.25 Peach *Amygdalus* or *Prunus Persica*
.26 Nectarin (variety)
.3 Citrous fruits: orange family, etc.
.31 Orange *Citrus aurantium*
.32 Varieties
.321 **Trifoliate** *C. trifoliata*
.322 **Mandarin, tangerine, kid glove orange** *C. nobilis*
.323 **Grape fruit, pomelo, shaddock** *C. decumana*
.324 **Kumquat** *C. Japonica*
.33 Citron group *C. medica*
.331 Citron var. *genuina*
.334 Lemon " *limon*
.337 Lime " *acida* or *limetta*
.34 Other
.341 Glycosmis *G. aurantiaca*
.342 Lime berry, bergamot lime *Triphasia trifoliata* or *aurantiola*
.343 White sapota, cochil sapota *Casimiroa edulis*
.36 Moraceous fruits Mulberry family
.37 Fig *Ficus Carica*
.38 Mulberry *Morus*
.39 Bred fruit *Artocarpus incisa*

634.4 Minor fruits

.41 Anonaceous fruits, custard apple family
.411 Sour-sop *Anona muricata* or *Asiatica*
.412 Sweet-sop, sugar apple *A. squamosa*
.413 Cherimoya; Jamaica apple *A. cherimolia*
.414 Pond apple; mamon *A. glabra* or *laurifolia*
.415 Custard apple; bullocks hart *A. reticulata*
.418 Northern papaw *Asimina triloba*
.42 Myrtaceous fruits, myrtle family
.421 Guava *Psidium*
.422 Rose apple; jamrosade *Eugenia jambos*
.423 Surinam cherry: Cayenne cherry; pitanga *Eugenia uniflora* or *Michelii*
.43 Sapotaceous fruits, star apple or sapodilla family
.431 Sapodilla, naseberry *Achras sapota*
.432 Marmalade tree or plum *Mammae sapota, Lucuma mammosa*
.433 Star apple *Chrysophyllum Cainito*
.44 Anacardiaceous fruits, cashew family
.441 Mango *Mangifera Indica*
.442 Jew plum, Pomme Cythere, sweet Otaheite apple *Spondias dulcis*
.443 Spanish plum *Spondias purpurea*
.45 Ebenaceous fruits; ebony family
.451 Kaki; Japan persimmon *Diospyros Kaki*
.452 Persimmon *D. Virginiana*
.46 Leguminous fruits; bean family
.461 Tamarind *Tamarindus Indica*
.462 St Johns bred; carob; karoub; algaroba *Ceratonia siliqua*

.5 Nut fruits Nuciculture
For wild nut trees see 634.9

.51 Walnut *Juglans*
.511 Persian or English walnut *J. regia*
.512 Black walnut *J. nigra*
.513 Japan walnut *J. Sieboldiara*
.518 Butternut, white walnut *J. cinerea*
.52 Hickory nut *Hicoria*
.521 Pecan *H. pecan*
.522 Shagbark or little shelbark hickory *H. ovata*
.523 Big or bottom shelbark hickory *H. laciriosa*
.524 Pignut *H. glebra*

634.53 Chestnut *Castanea*
.531 European chestnut *C. sativa* or *vesca*
.532 American chestnut *C. Americana*
.533 Japan chestnut *C. crenata* or *Japonica*
.537 Chinkapin *C. pumila*
.54 Filbert, hazelnut, cobnut *Corylus*
.55 Almond *Prunus*
.551 Almond *P. amygdalus*
.552 Russian almond *P. nama*
.555 Tropical almond *Terminalia Catappa*
.57 Miscellaneous nuts
.571 Litchi, Leechee *Nephelium Litchi*
.572 Ginkgo *G. biloba*
.573 Cashew *Anacardium occidentale*
.574 Pistachio *Pistacia vera*
.575 Brazil *Bertholletia excelsa*
.58 Peanuts *Arachis hypogaea*
Better clast 635.659

.6 Palmaceous fruits
Palm family and miscellaneous tree fruits

.61 Coconut, coco palm *Cocos nucifera*
.62 Date palm *Phoenix dactylifera*
.63 Oliv *Olea Europea*
.64 Pomegranate *Punica granatum*
.651 Papaw; melon papaw, melon zapote *Carica*
.652 Spanish lime Ginep *Melicocca bijuga*
.653 Alligator or Avocado pear *Persea gratissima*
Aquacata, midshipmans butter
.654 Mammee apple, S. Domingo apricot *Mammea Americana*
.661 Hovenia
.662 Jujube *Zizyphus*
.663 Myrica
.664 Seagrape; shore grape *Coccoloba uvifera*
.665 Pigeon plum *Coccoloba Floridara*
.666 Otaheite gooseberry *Phyllanthus distichus*
.667 Strawberry tree *Arbutus unedo*

.7 Small fruits, bush fruits and herblike fruits
Table berries

.71 Rubaceous, cane or bramble fruits *Rubus*
.711 Raspberries
1 European 2 Black cap 3 Red
.712 Oriental raspberries, wineberry, Japanese wineberry
.713 Blackberry
.714 Loganberry
.717 Dewberry
1 Northern 2 Southern 3 Pacific

634.72 Ribaceous fruits Groselles *Ribes*
.721 Currants
.722 **Garden or common currant** *R. rubrum*
.723 **Black currant**
1 European *R. nigrum*
2 American *R. Americanum*
3 California *R. bracteosum*
.724 **Buffalo, Missouri, flowering or golden currant** *R. aureum*
.725 Gooseberry
.726 **European** *R. grossularia*
.727 **American** *R. oxycanthoides*
.73 Huckleberry, blueberry, etc.
.731 Blue tangleberry or dangleberry *Gaylussacia frondosa*
.732 Black huckleberry *G. resinosa*
.734 Low or dwarf blueberry *Vaccinium Pennsylvanicum*
.735 Canadian blueberry *V. Canadense*
.736 Low or pale blueberry *V. vacillans*
.737 Swamp blueberry, high huckleberry *V. corymbosum*
.74 Miscellaneous bush fruits
.741 Juneberry *Amelanchies*
.742 Buffalo berry *Lepargyraea argentea* *Shepherdia argentia*
.743 Goumi *Elaeagnus longipes* or *multiflora*
.744 Caraunda Christ's thorn *Carissa Carandas*
.745 Cranberry bush, high or tree cranberry *Viburnum opulus*
.746 Barberry *Berberis*
.747 Elderberry
.75 Strawberry *Fragaria*
.751 Garden strawberry, pine strawberry *F. chiloensis*
.752 Hautbois strawberry *F. moschata*
.753 Alpin and perpetual strawberry *F. vesca*
.754 Scarlet or Virginia strawberry *F. Virginiana*
.76 Cranberry *Vaccinium macrocarpor*, etc.
.77 Nonwoody or herblike fruits
.771 Musaceous fruits *Musa*
.772 **Banana** *Musa sapientium*
.773 **Plantain banana, cooking banana, Adam's fig** var. *paradisiaca*
.774 Pineapple *Ananas sativus*
.775 Cactaceous fruits
1 **Prickly pear, tuna** *Opuntia tuna*
4 **Indian fig** *Opuntia ficus Indica*
7 **Barbados gooseberry, lemon vine, blad apple** *Pereskia aculeata*
.776 Miscellaneous herblike fruits
1 **Cyphomandra; tree tomato** *Cyphomandra betacea*
2 **Ceriman** *Monstera deliciosa*

634.8 **Grapes Vinyards Viticulture**
Form divisions 01–09 may be used as under 634.9 Forestry
.81 General questions
Divided like 631
.82 Hindrances Blights Pests
Divided like 632
.83 Ampelografy: grape botany Varieties
.831 Botany
Divided like 581
.835 Inheritance; degeneracy etc.
Domestication of the grape
09 **Hybrids**
092 Natural or accidental
093 Artificial
094 Direct bearers or producers
Culture without grafting and spraying
.836 Varieties
2 **By time or season**
Precocious, early, late
3 **By climate or latitude**
Northern, olive belt, orange belt, tropical
4 **By soil**
Clay, limestone
5 **By form of fruit**
Round, oblong, irregular
6 **By color of fruit**
2 White 4 Red 6 Black or blue
7 **Resistant varieties**
72 Phylloxera resistant
73 Mildew resistant
76 Varieties resisting the elements
2 Frost 4 Sun
.84 American species and stocks: nativ
.841 General questions
09 **Hybrids originating or developt in America**
For general works only. Clas a special hybrid with the wilder of its parent stocks
091 Americo-American hybrids
094–099 Vinifera-American hybrids
Divided by the number for the country, like 940–999, e.g. British-American hybrids 634.8410942
.842 Euvites
.843 Ripariae Rupestreae
1 **Ripariae**
2 Vitis riparia or Vitis vulpina
River, riverbank, riverside, sweetscented, or winter grape
209 Hybrids
Bacchus, Berckmans, Canada, Clevener, Clinton, Elvira, Empire State, Etta, Faith, Grein golden, Marion, Montefiore, Noah, Oporto, Peabody, Taylor or Bullitt
3 Vitis rubra
Red or cat grape

634.8435 **Rupestreae**
6 Vitis rupestris
Beach, bush, mountain, rock, sand or sugar grape
7 Vitis monticola
Sweet mountain grape
8 Vitis Arizonica
Canyon grape
.844 **Cinerascentae**
1 Vitis berlandieri
Fall, little mountain, mountain, Spanish or winter grape
3 Vitis cinerea
Ashy, downy or sweet winter grape
5 Vitis cordifolia or hart-leavd vitis
Chicken, fox, frost, possum, raccoon, true forest or winter grape
.845 **Aestivaliae**
1 Vitis aestivalis
Blue, bunch, chicken, duck-shot, little, pigeon, summer or swamp grape
109 Hybrids
Cynthiana, gold-coin, Norton, Norton's Virginia, Onderdonk or Ozark
2 Vitis aestivalis bourquiniana
Southern aestivalis
Bertrand, Croton, Cunningham, Devereaux, Herbemont, Louisiana, Poughkeepsie
Lenoir: Black Spanish, Burgundy, Warren
3 Vitis bicolor
Blue leaf, northern or northern summer grape
5 Vitis lincecumii
Pinewood, post-oak, turkey grape
509 Hybrids
America, Beacon, Carman, Fern munson, Husmann, Jaeger
.846 **Labruscoideae**
1 Vitis Californica
California grape
3 Vitis Caribaea de Candolle
5 Vitis Coriacea
Callosa or lether-leaf grape
7 Vitis Candicans
Mustang grape
709 Hybrids
Belton, Gwyn, Sanford
.847 **Labruscae:** Vitis labrusca
Fox, northern fox, northern muscadine, skunk grape
Champion, Chautauqua, Colerain, Concord, Dracut amber, Early daisy, Early Ohio, Eaton, Eclipse, Eldorado, Hartford, Hicks, Hosford, King, Lucile, Lutie, McPike, Moore early, Pocklington, Vergennes, Worden, Wyoming, Wilmington red
09 Hybrids
Agawam, Aminia, Barry, Black eagle, Brighton, Brilliant, Campbell early, Canandaigua, Catawba, Delaware, Diamond, Diana, Downing, Dutchess, Eumelan, Green early, Hayes, Herbert, Hercules, Ideal, Iona, Isabella, Israella, Ives, Janesville, Jefferson, Jessica, Jewel, Lady, Lady Washington, Lindley, Martha, Massasoit, Maxatawney, Merrimac, Mills, Moyer, Niagara, Perfection, Perkins, Prentiss, Rebecca, Regal, Requa, Rochester, Rommel, Salem, Senasqua, Triumph, Ulster, Wilder, Winchell, Woodruff

634.848 Muscadiniae
1 Vitis rotundifolia
Bull, bullace, bullet, bushy, muscadine or southern fox grape
109 Hybrids
Eden, Flowers, Hopkins, James, Memory, Mish
6 Vitis Munsoniana
Bird, everbearing or Florida grape. Florida mustang grape
.849 Vitis vinifera in America
Actoni, Almeria, Bakator, Black Hamburg, Black Malvoise, Black Morocco, Chasselas golden, Chasselas rose, Emperor, Feher Szagos, Flame Tokay, Fontainbleu, Gros Colman, Lignan blanc, Malaga, Mission, Moscatello or black muscat, Muscat Hamburg, Muscatel or white Frontignan, Palomino, Purple Cornichon, Rosaki, Rose of Peru, Sultana, Sultanina, Verdal or Aspiran blanc
09 Hybrids
Gaertner, Geneva, Goethe, Hidalgo, Highland, Hybrid franc, Kensington, Othello, Secretary, Walter
.85 Other species and stocks
Vitis vinifera is the only Old world species
.853–.859 Stocks by locality Divided like 930–999
.854 European
2 **British**
209 Hybrids
1 Americo-British hybrids
3 **German**
Affenthaler, Burgunder, Cabernet, Elbling, Heunisch, Malvasia, Muskateller, Orleans, Ortlieber, Riesling, Ruländer, St Laurent or Sundgauer, Sauvignon, Semillon, Sylvaner, Traminer, Veltliner
309 Hybrids
1 Americo-German hybrids
36 **Austrian**
Blatterl, Blaufränkisch, Blue Portuguese, Gutedel, Lagrein, Laska, Nosiola, Nossara, Peverella, Red sylvaner, Traminer or Fränkischer, Vernatsch, Wildbacher, Zierfahndler
39 **Hungarian**
Augster, Baccador, Balint or Kleinweiss, Honigler, Kadarka, Lämmerschwanz, Slankamenka, Yellow Mosler or Furmint
4 **French**
Ambonnay, Argenteuil, Cabernet, Carquebas, Chablis, Chambertin, Chasselas, Colombard, Folle blanche, Gamay, Gamay hatif, Guercy, Jacquez, Loubal, Malbec, Marsanne, Melon, Meslier, Mondeuse, Moussy, Muscadet, Picpoul, Pinot, Pinot noir, Pouilly, Red traminer, Riesling, Roussonne, St Thiery, Sauvignon, Semillon, Sylvaner, Tressalier, Valdignier
5 **Italian**
Agostenga, Alcatico, Barbera, Cannajola, Cataratto, Dolcedo, Grignolino, Malvoisie, Marzemino, Nebbiolo, Negrara, Nocera, Schiavone, Teroldigo, Trebbiano
6 **Spanish**
Alicante or Grenache, Ferra, Listan, Malvoisie, Mourvedre, Muscat d' Alexandria, Ximenes
69 **Portuguese**
Alvarelhao, Bastardo, Donzellino, Gouveio, Sercial, Touriga
94 **Swiss**
Mondeuse
.855 Asiatic
.856 African
.87 Products of vinyards
.872 Table grapes Culinary grapes
.873 Raisins
Drying, dipping

634.9 Forestry

The following expansion is based on the Forestry classification prepared by a committee of the Society of American Foresters and publisht in Journal of forestry, Feb. 1923, 21: 152–61

.901 Theory
- 1 General conception, nature and extent
- 2 Classification
- 3 Value Importance Usefulness
- 4 Nomenclature Terminology
  - For discussion only. Dictionaries and glossaries ar clast under 634.903

.902 Compends

.903 Dictionaries Cyclopedias

.904 Essays Addresses Lectures
- For *general* collections only; if, either singly or collected, they ar on a special topic they ar clast with that topic

.905 Periodicals
- 8 Yearbooks Directories
- 9 Kalendars Almanacs

.906 Associations Societies
- 1 Official organizations Government departments, etc.
  - For experiment stations see 634.9072
- 2 Unofficial organizations
- 3 Congresses Conferences

.907 Education Study and teaching
- 1 Forestry schools
- 2 Experiment stations

.908 Polygrafy Collections

.909 History and general local treatment
- .9091 Comparativ study (national practises); .9093–9 divided like 930–999

.92 Economics

.922 Forest influence: geophysic
- **2 On climate**
- **3 " soil**
- **4 " water resources and stream flow**
- **5 " erosion**
- **7 " avalanches**

.923 Forest influence: social
- **2 On public helth**
- **4 " ethics and morals**
- **6 " esthetics**
  - Better clast by general libraries in 715
- 62 Forest parks
- 64 City parks and shade trees

.924 Relation to industries
- Subdivided by industry like 620–699; e.g. 634.9242 Relation to mining; 634.92476 Relation to paper making. For industries not included in 620–699 use .9241 subdivided like main classification

634.925 Forest policy
- **1 Special topics**
- 11 Conservation Reservation
- 12 Educational policy
  - Investigation and reserch. For experiment stations see 634.9072
- 13 Cooperation Demonstration
  - Financial aid by public authorities
- 14 Importance of forests
- 142 For watershed protection
- 143 " waterpower development
- 145 " timber production Silvicultural policy
- 16 Public ownership
- 17 Use of publicly owned forest land
  - See also 634.99
- 172 For mining
- 173 " farming
- 174 " grazing
- 176 " hunting, fishing, etc.
- 177 " recreation
  - Camping. Forest hotels and recreation centers
- 179 " other purposes
- 18 Government regulation of privately owned forests
- 19 Other
- **2 Controlling and supervizory relations**
  - For general discussions of policy. Material relatng to a special locality is clast in 634.9253–9
- 22 International policy
- 23 National "
- 24 State Provincial
- 25 Minor local divisions; city, etc.
- 26 Private ownership policy
- **3–9 Local treatment**
  - Divided like 930–.999

.927 Forest resources
- See also 634.9094–.9099
- **1 Resources as a whole**
- 22 Production
- 24 Distribution
- 25 Exports: quantities, values, etc.
- 251 Tarif Duties
- 26 Imports: quantities, values, etc.
- 261 Tarif Duties
- 27 Consumption
- **3 Timber**
  - May be subdivided like .9272

.928 Management
- **2 Administration**
- 22 Personnel and staf organization
- 223 National
- 224 State Provincial
- 225 Municipal
- 226 Private
- 24 Business practis Accounting Bookkeeping
- 26 Equipment
  - General. Equipment for special purpose is clast under number for that purpose

634.9283 **Organization Regulation**
Preparation of working and planting plans
32 Fundamental premises and principles
322 Increment Increase
323 Rotation
324 Cutting cycle
325 Normal forest
33 Working plans Blocks
332 Surveys: forest, timber, planting Forest reconnaissance Collecting data
333 Determining treatment methods
334 Regulating yield or cut Determining felling budget
335 Control and revision of working plans
336 Working plans for special areas
4 Finance
42 Valuation
422 Economic and mathematic principles
423 Investments and costs in forest production
424 Valuation of entire forests
425 " " forest soil Land values
426 " " timber or growing stock
427 Stumpage values and appraisals
428 Appraisal of damages
43 Statics Comparison of values
432 Determining forestry profits
433 " forest per cent
434 Financial tests of treatment methods
435 Comparison of forest with agricultural values
44 Timber risks and insurance
45 " bonds
46 Forest taxation
Including tax laws
5 Mensuration
Determining volume of timber products and their growth and yield
52 Determining stand contents
522 Mesuring all trees
523 Using sample "
524 " " plots
525 Ocular estimation of timber stands
53 Stand growth Stand increment
531 Yield Yield tables Accident yield
532 Permanent sample plots
533 Age determination
534 Diameter growth
535 Hight "
536 Volume "
54 Standing trees mesurement
544 Diameter
545 Hight
546 Volume tables
2–5 Species
Subdivided like 634.972–.975
547 Taper tables
2–5 Species
Subdivided like 634.972–.975

634.928
548 Form factors
2–5 Species
Subdivided like 634.972–.975
55 Mesurement of feld trees
56 " " logs
57 " " lumber
58 " " other forest products
.93 Engineering
.932 Surveying
2 Land surveying
4 Topografic surveying
.934 Construction engineering Forest improvements
2 Roads
3 Trails
4 Bridges
5 Fences Hedges
6 Bildings
7 Lookout towers Special protectiv works Signaling
77 Heliograf
8 Electric construction
82 Lighting and power lines
86 Telegraf and telefone lines
.936 Hydraulic engineering
Including reservoirs, dams and condits
2 Drainage
3 Irrigation
5 Domestic waterpower development
.94 Forest botany
.942 Dendrology
Subdivided like 581
.946 Ecology
Relation to environment
.947 Biologic dendrology
Relation of individual trees to environment
2 Physiografic factors Site factors
22 Light
23 Temperature
24 Precipitation
Floods, inundations
25 Humidity
26 Wind
27 Soils
273 Soil physics
274 " chemistry
277 " biology
2 Bacteria
4 Mycorrhiza
28 Water relations
Transpiration in relation to temperature, humidity, water and soil
6 Climatic effects Acclimatization and adaptation
8 Geografic distribution by species
Subdivided like 583–585
For geografic distribution by locality see 634.9093–9

634.948 Silvics
Reaction of tree aggregates to environment
2 **Forest types and site qualities**
207 Methods of study and mapping
22 Classification basis
23 Origin and development
Migration, invasion and establishment
24 Succession
25 Alternation and zonation
.949 Accessory forest vegetation
Subdivided like 580
.95 Silviculture
.952 Natural production sistems
2 **Clear cutting** **Clean cutting**
22 By strips
24 " groups
3 **Seed tree method**
Cleard except for certain seed trees
4 **Selection method**
Cutting according to age or size
5 **Shelterwood method**
Gradual removal, by partial cuttings, of the shelter or seed trees
6 **Coppice or sprout method**
7 **Coppice with standards** **Reserv sprout forest**
.953 Intermediate cuttings
2 **Improvement cuttings**
3 **Cleanings**
By animals etc.
4 **Liberation cuttings**
5 **Thinnings**
6 **Salvage cuttings** **Severance cuttings**
7 **Pruning**
.954 Marking
Scratchers, bark blazers, bark gages, tree scribes
.955 Brush disposal
Slash disposal
2 **Piling**
3 **Top-lopping and scattering**
4 **Burning**
.956 Forestation
1 **General questions**
13 Tools and equipment
2 **Seed**
22 Production and source
23 Collecting
24 Extracting Cleaning
25 Testing
26 Storing
27 Treatment of seed
Chemic etc.
3 **Direct seeding**
32 Methods
34 Protection
36 Results

634.9564 **Nursery practis**
42 Sowing
43 Fertilizing
44 Shading
45 Irrigating Cultivating Weeding
46 Transplanting
Ball planting
47 Control of growth
48 Temporary storage of stock
5 **Planting**
51 General questions
Sites and effect of cover
52 Kinds and classes of plant material
53 Methods of planting
56 Care and protection
58 Types of plantation
582 For investment
584 " wind breaks and shelter belts
585 " watershed protection
See also 634.925142
588 " shade trees, ornamental trees, etc.
Better clast in 715
6 **Underplanting**
7 **Tree breeding**
8 **Introduction of species**
82 Exotics
84 Extension of range of nativ species
.96 Injury Protection
Subdivided like 632
.97 Taxonomic forestry
Forestry principles applied to individual tree species
.972 Important deciduous or broadleavd trees Dicotyledons
Most important species of commerce. Arranged in order of U. S. lumber production
1 **Oak** 4 **Chestnut** 7 **Linden** **Basswood**
2 **Maple** 5 **Beech** 8 **Elm**
3 **Poplar** 6 **Birch**
.973 Other dicotyledons
Subdivided like 583
.974 Monocotyledons
Subdivided like 584
.975 Conifer or evergreen species Gymnospermae
1 **Pine** 4 **Fir** 7 **Larch**
2 **Spruce** 5 **Cypress** 8 **Sequoia**
3 **Hemlock** 6 **Cedar** 9 **Other**
.976 Clast by special caracteristics
2 **Hardness** 3 **Weight**
22 Hard woods 32 Hevy woods
24 Semi-hard woods 36 Light woods
26 Soft woods 6 **Aromatic woods**

634.977 Mixt forests
2 or more species artificially combined in stands: e. g. pine and oak
.978 Conglomerate forests
.98 Forest product utilization
.982 Logging
1 **Economics**
25 Administration
253 Camp management
254 Camp equipment
255 Commissary Dietary
256 Sanitation
257 First aid Medical data
258 Veterinary data
3 **Machinery and tools**
4 **Log making**
42 Felling
43 Limbing
45 Bucking
5 **Transport**
52 Animal
522 Ground skidding, snaking and bunching
523 Wheeling
524 Trucking
525 Sled hauling
526 Trail chuting Trail sliding
53 Power
Steam, electricity or gas
532 Skidding and aerial tramways
534 Logging railroads
536 Tractors
54 Water
542 Rafting
543 Driving
545 Fluming and sluicing
547 Barging
55 Gravity chutes Timber slides
56 Hand logging
6 **Log sorting Grading**
.983 Rough-wood products
2 **Logs**
3 **Cross ties**
4 **Poles**
5 **Piling**
6 **Posts**
7 **Mine timbers**
8 **Fuel wood**
9 **Other**
.984 Other lumber: by uses Forest lumber manufacture
Lumbering viewpoint only, and where affiliated with lumbering industry. Lumber manufacture in general, sawd and machined products and teknic of use ar better clast in 674
2 **Box lumber**
3 **Cooperage lumber**
4 **Veneering "**
5 **Shingle and shake lumber**
6 **Excelsior lumber**
7 **Chemic uses of forest products**
72 Charcoal lumber
73 Dry distillation lumber
74 Dyewoods
Including general works involving use of wood, bark, twigs, foliage, roots etc.

634.985 Bark products
2 **Tanning barks**
5 **Light-weight barks**
7 **Medical barks**
8 **Basts**
.986 Saps
1 **Naval stores**
22 Turpentine
See also in chemic teknology 665.3
24 Resin etc.
See also in chemic teknology 668.4
5 **Rubber latex**
See also rubber manufacture 678
6 **Camfor**
7 **Food-product saps**
72 Maple sap
See also 633.64
9 **Other gums and resins**
See also in chemic teknology 668.4
92 Spruce gum
.987 Fruits Seeds Nuts
Palm nuts
For cultivated nut trees (trees receiving individual attention) see 634.5
.989 Other forest products
1 **Foliage**
Pine needles. eucalyptus leavs, etc.
5 **Parasite utilization Abnormalities**
Subdivided like 580
512 Galls
54 Orchids
58 Mosses
8 **Wastes**
82 Thinnings
83 Dry fallen timber
84 Forest litter Fertilizer Muck
.99 Other uses
See also 634.92517 Forest policy
.993 Farming
.994 Forest pasture Forest grazing
8 **Foliage as fodder**
.996 Hunting and fishing
2 **Hunting**
5 **Fishing**
.997 Recreation uses
Camping and outdoor life. Forest hotels and recreation centers
.998 Potable water protection
.999 Farm forestry Wood lots

635 Garden crops; kitchen and market gardening

Vegetable gardening

SUMMARY

.1 Edible roots, including tubers and bulbs
.2 Tubers and bulbs
.3 Edible leavs or flowers
.4 Greens, pot herbs
.5 Salads
.6 Edible seeds and fruits
.7 Condimental and sweet herbs
.8 Mushrooms, truffles
.9 Floriculture

.1 Edible roots
.11 Beet
.12 Turnip
Usually a field crop. See 633.42
.126 Rutabaga Swedish turnip Turnip-rooted cabbage
.127 Navew, French turnip
.128 Celeriac, turnip-rooted celery
.13 Carrot
.136 Turnip-rooted chervil
.137 Chicory
Better in 633.78
.14 Parsnip
.15 Radish
.16 Salsify, oyster plant, vegetable oyster
.166 Scorzonera, black salsify
.167 Scolymus, Spanish salsify
.2 Edible tubers and bulbs
.21 Potato
.22 Sweet potato, Spanish potato, batata
.23 Yam
.24 Jerusalem artichoke, topinamber
.25 Onion
.26 Other plants of Allium family
.261 Leek
.262 Garlic
.263 Shallot, scallion
.264 Cibol, Welsh onion (French, ciboule)
.265 Cive, chive

635.3 Edible leavs, flowers and stems
.31 Asparagus
.32 Artichoke
.327 Cardoon, chardoon
.33 Sea kale
.34 Cabbage
.346 Kale or borecole
.347 Collards
.348 Kohlrabi
.35 Cauliflower
.356 Broccoli
.36 Brussels sprouts
.4 Greens
.41 Spinach
.42 Chard, sea-kale beet, Swiss chard
.43 Orach, French spinach
.44 Mustard
.45 Sorrel Dock
.46 Dandelion Purslane (pusley)
.48 Rubarb
.5 Salads
.51 Bitter salads
Dandelion. See 635.46
Cardoon. " 635.327
.52 **Lettuce** *Lactuca sativa*
.53 **Celery** *Apium graveolens*
.54 **Chicory or succory** *Cichorium intybus*
Also used as pot herb and root
.55 **Endive** *Cichorium endivia*
.56 Piquant or warm salads
Clas any species or variety with its genus; e. g. bitter cress, *cardamins-amara* with 635.562
.561 **Water cress** *Nasturtium officinale*
.562 **American water cress** *Cardamine rotundifolia*
.563 **Garden cress** *Lepidium sativum*
.564 **Winter cress** *Barbaria vulgaris*
.565 **Swine cress** *Senebiera coronopus*
.566 **Indian cress** *Tropaeolum majus*
For mustard see 635.44
.57 Neutral salads
Lamb's lettuce, corn salad, fetticus

635.6 Edible seeds and fruits

.61 Melons

.611 Muskmelon: cantaloup, nutmeg, winter, etc.

.615 Watermelon: preserving or " citron "

.618 Zit kwa, wax gourd

Chinese preserving melon, Chinese watermelon

.62 Squashes

.621 Summer or bush squashes

Crooknecks, scallop or pattypan, pineapple

.622 Fall and winter, or longrunning squashes

Canada crookneck, Hubbard

.623 Vegetable marrow

.624 Pumpkins

.627 Luffa, rag gourd, dishcloth gourd, vegetable sponge

.63 Cucumbers Gherkins Martynia

.64 Tomato

.646 Egplant, guinea squash, aubergine

.647 Physalis, husk tomato, strawberry tomato

.648 Okra or gumbo

.65 Legumes Beans

.651 Broad bean

.652 Kidney bean: garden, snap and string bean; haricots

.653 Lima or sugar bean

.654 Dolichos

.655 Soy or soja bean

See 633.34

.656 Peas

.657 Chick pea *Cicer arietinum*

.658 Lentils *Lens esculenta*

.659 Other legumes

Peanuts; see also forage crops 633.36

.67 Sweet corn

.677 Pop corn

.7 Condimental and sweet herbs

For the regular condiments of commerce see 633.84 and 664.5

.71 Seasoning leavs and flowers

.72 Garden mint, spearmint

.74 Flavoring for pickles, vinegar, etc.

Dil, tarragon, samfire, costmary

.75 Seeds for flavoring

Anis, coriander, caraway

.76

.77

.78 Garnishes: parsley, leaf chervil

.8 Mushrooms, truffles

635.9 Floriculture

Growing for market and marketing flowers and ornamental plants, and growing them for home, park and cemetery embellishment

Clas here works on methods of raising flowers. For study of flowers from artistic side and for their artistic effect in relation to gardens and grounds see 716. For botanic treatment see 580

01–09 may be used as under 634.9 Forestry

.909 History and general local treatment

Divided like 930–999

Clas descriptions of individual flower gardens in 716.2

.91 Economics and operations

Divide like 631

.92 Hindrances

Divide like 632

.93 Plants by life duration Species

Clas here general works on herbaceous plants

Clas under subdivisions of .93 all works on *individual* flowering plants, except trees (see 635.977) using the later hedings, which treat floriculture from other points of view, e.g. bulbs, potted plants, greenhouse plants (under several of which a single plant might appropriately appear) only for works treating the distinctiv feature in a general way or including several species which would botanicly be clast under various numbers

.931 Annuals and biennials

2 Resistance to cold

22 Tender

24 Half hardy

26 Hardy

.932 Perennials

See note under 635.933–.939

2 Resistance to cold

Subdivided like 635.9312

.933–.939 Species etc.

Divided like 583–589. It is strongly recommended that all individual families, genera and species (except trees, see 635.977) be clast here, but if preferd those which ar exclusivly either annuals and biennials or perennials, may be clast in 635.931 and .932, subdivided by 3–9 and further subdivided like 583–589

.94 Plants by means of propagation

Under each of the following subdivisions Resistance to cold may be exprest by 2, further subdivided like 635.9312

.942 Seeds

.944 Bulbs, tubers etc.

.946 Runners, layers

.948 Cuttings, slips etc.

.95 Special conditions of growth

.952 Climate

2 Tropic plants Tender plants

3 Temperate zone plants

4 Arctic plants

6 Alpine or mountain plants

8 Effect of climate on species

Subdivided like 580

9 Effect of climate by locality

Subdivided like 940–999

635.953 Season and hour of flowering
- 2 **Spring**
- 3 **Summer**
- 4 **Autumn**
- 5 **Winter**
- 7 **Morning**
- 8 **Evening**

.954 Environment as related to light
- 2 **Sunny**
- 4 **Shady**

.955 Soil
- 2 **For moist soils**
- 3 " **dry** "
- 4 " **rich** "
- 5 **For poor soils**
- 6 " **chalky** "
- 7 " **sandy** "

.96 Purpose

.962 Beds

.963 Borders or edging

.964 Gras and lawn flowers

.965 Growing plants Potted plants
- 1 **House plants**
  - 22 In pots, vases, water etc.
    - 222 In soil and pots
    - 223 " fiber and vases
    - 224 " water and pebbles
    - 225 " moss
    - 226 As air plants
  - 23 Flowering plants
  - 24 Vines
  - 26 Foliage plants, ferns etc.
  - 28 Bulbs, tubers etc.
- 3 **For temporary decoration**
  Weddings, receptions, church servises, etc.
- 5 **Flower shows Exhibits**

.966 Cut flowers
- 1 **General use**
- 3 **Decoration**
  Weddings, receptions, church servises, etc.
- 4 **Floral designs**
  Funerals etc.
- 5 **Flower shows Exhibits**

.967 Special kinds of gardens
- 1 **Rock plants Alpine plants**
- 4 **Water gardens Aquatic plants**
  Lake and brookside plants
- 6 **Woodland (wild flower) gardens**

.968 Other purposes

.969 Nurseries
- 9 **Seed production**

635.97 Other groupings

.972 Oldfashiond plants

.973 Everlastings

.974 Climbing plants
- 1 **Vines**
  - 22 Annual vines
  - 23 Hardy "
- 8 **By uses**
  Ground coverers, wall coverers, etc.

.975 Foliage
  For grasses see 635.9349
- 1 **Colord**
- 3 **Green**
  For cactuses see 635.933471
  - 32 Ferns
    - 328 By uses
      Living room ferns (pot ferns, basket ferns), stove ferns, conservatory and greenhouse ferns
  - 34 Asparagus
  - 36 Mosses

.976 Shrubs Hedges
- 3 **Deciduous shrubs**
  - 32 Flowering
  - 33 Ornamental fruiting
  - 34 " foliage
  - 35 Climbing
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- 4 **Evergreen**
  May be subdivided like 635.9763
- 5 **Conservatory shrubs**
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- 8 **Hedges**
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  - 84 Evergreen

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  Clas here commercial raising of ornamental trees. For their use see landscape gardening 715. See also in agriculture 631.537 Nurseries; 634 Fruits, orchards; 634.9 Forestry
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- 6 **Deciduous**
  635.97762–4 may be used like 635.97632–4
- 7 **Evergreen**
- 8 **Shade trees**
  - 83 Deciduous
  - 84 Evergreen

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- 2 **Color**
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  - 23 Violet or purple
  - 24 Blue
  - 25 Yellow
  - 26 Orange
  - 27 Red
  - 28 Pink
  - 29 Other colors
    - 295 Brown
- 3 **Odor**
  - 32 Fragrant
  - 33 Malodorous
- 4 **Feeling**
  - 44 Roughleavd
  - 45 Irritant

.98 Under glas
- .982 Greenhouses Conservatories
- .983 Hotbeds
- .984 Cold frames
- .985 Bel glasses
- .987 Forcing

636 Domestic animals Live stock

.08 Zootechny

The breeding and keeping of animals in domestication

SUMMARY

- .081 Selection Economics
- .082 Formation of stock, races, breeding
- .083 Care
- .084 Feeding
- .085 Food; general questions
- .086 Foods; divided like 633
- .087 Other foods
- .088 Utilization and training
- .089 Hygiene Diseases

.081 Selection Economics, etc.

- 1 Selecting and acquiring stock
  - 11 **Capture**
    Of wild anima' .d of domesticated animals allowd to run wild.
    " Round up " of western ranches
    - 111 Capture by snares, traps, nets, etc.
    - 112 " " wepons, guns, etc.
    - 113 " " help of other animals, dogs, horses, ferrets, hawks, etc.
  - 12 **Purchase Original cost**
  - 13 Barter Horse trade
  - 14 Standards of excellence Points
  - 15 Soundness Imperfections Blemishes
  - 16 Estimating age
- 2 Brands and branding and other marks of ownership
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- 3 Stock farms Ranches
  - 31 **Descriptions of individual farms**
    Alfabetic
- 6 Finances and accounts
  - 7 **Expenses**
    - 71 Supplies, food, etc.
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    - 75 Insurance
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    - 81 Weight tables
    - 87 Stock farm catalogs
    - 88 Catalogs of sales

636.082 Formation of stock
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1 Character of herd, flock, colony, etc.
11 **Species, races, breeds, strains; heredity, variation**
2 Herd books, stud books, flock books, etc.
3 Composition of herd, flock, colony
Including notes and articles about the different kinds
31 **Male**
32 **Female**
33 **Neuter** (of bees)
34 **Castrated animals**
342 Males
345 Females
35 **Young animals**
352 Males
355 Females
36 **Culling**
4 Breeding Reproduction
41 **Breeding in and in**
Line breeding. Animals closely related by blood
43 **Cross breeding**
431 Hybrid
Individuals of different species
432 Métissage
Individuals of different races
44 **Choice of parents**
45 **Generation**
451 Sexual excitement: heat, rut
452 Sex control
453 Sexual union
454 Impregnation Sterility
Fusion of male and female element
455 Gestation
456 Birth
Abortion
46 **Laying of egs**
461 Nests
47 **Incubation Hatching**
471 Natural
474 Artificial Incubators
.083 Care of animals
1 Housing
Stalls, boxstalls, pens, nests
2 Care of stables or houses
Cleanliness, bedding
3 Care of animals
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37 **Special care of young**
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5 Care of animals outdoors
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6 Acclimatization
61 **Protection from cold: blankets**
62 " " **heat**
66 " " **wind and rain**
7 Care of harnesses and accouterments

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11 **Suckling**
12 **Weaning**
13 **Hand or artificial feeding**
2 General methods of feeding
21 **In stables, houses, etc.**
22 **In pasture Grazing**
23 Mountain pastures, forests, ranches, ranges
31 **Special provisions: water, salt, etc.**
4 Ordinary, rational feeding
41 **Rations Amount and proportion**
42 **Kind and times of feeding**
45 **Substitutions Variety**
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51 **For breeding time**
52 **For increast production: milk, egs, etc.**
53 **For work**
55 **For fattening**
56 Forced feeding, cramming
.085 Food
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1 Composition
Analysis
2 Nutritiv value
Digestibility; fuel value
3 Food experiments
4 Commercial value
5 Different kinds of food
For individual foods see 638.086 and .087
51 **Fresh or green fodder**
52 **Silage**
54 **Dry fodder**
Hay, straw, grains
57 **Prepared foods**
Industrial residues Cakes of oily grain or fruit
6 Preparation and use of food
9 Adulterations of foods for animals
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13 **Oats**
15 **Corn**
2 Forage crops, hay
25 **Straw**
255 Cornstalks
32 **Clover**
41 **Beets**

636.087 Other foods
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Divided like 634
5 **Garden crops**
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6 **Animal food**
7 **Mineral foods: salt, condiments**
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1 For breeding purposes
2 For work
3 For production of food: meat, egs, etc.
4 For animal products
Wool, skins, fethers, etc.
6 Breaking, training, etc.
61 **To saddle, etc. for carrying purposes**
62 **To harness, for work**
66 **Special training**
661 Carrying messages
662 Hunting
.089 Hygiene, diseases, etc.
Hygiene is usually better clast 614.9, and Diseases 619
636.0891–.0897 may be subdivided like 611–617
1 Anatomy
2 Physiology
3 Hygiene
5 Remedies, materia medica
6 Diseases Diagnosis
7 Surgical operations
.1 **Horse**
636.108 may be subdivided like 636.08, but utilization is partly provided for under .11–.16 below
.11 Oriental horse
Arabian, Persian, Tartar, Turkish, Barb
.12 Speed horse, race horse, light type, ' hot blooded '
.121
.122 English thorobred or running horse
.127 Other European
1 **Russian Orloff trotters**
.128 American trotter or pacer
1 **Morgan**
.13 Saddle horse
Hunter; military (charger, cavalry horse, etc.), American saddle, Kentucky saddle, cob, park hack, palfrey

636.14 Coach or carriage horses
Harness horse
.142 English coach
1 **Cleveland bay**
2 **Yorkshire coach**
3 **Hackney**
.143 German coach
East Prussian or Trakehner, East Friesland, Rhenish Prussian, Mecklenburg, Schleswig, Hanoverian, Oldenburg, Holstein
.144 French coach, ' demisang '
.145 Italian: Corsican
.15 Draft horse, cart horse, hevy type, ' cold blooded '
.152 English
1 **Clydesdale**
2 **Suffolk punch or draft**
3 **Black or shire draft**
.154 French and Belgian
1 **Norman, Percheron**
2 **Ardennais**
3 **Boulonnais**
4 **Breton**
5 **Nivernais**
6 **Belgian draft, Flanders dray, Flemish horse**
.158 American draft
Conestoga
.16 Ponies
.161 Ponies for special purposes: polo
.162 Scotch, English and Welsh
1 **Shetland**
2 **Galloway**
4 **Exmoor**
5 **Dartmoor**
6 **New Forest**
9 **Welsh**
.168 American
Mustang, bronco, Indian pony
.18 Allied animals
.182 Ass: jackass, donkey, burro
Asiatic, Catalonian, Italian, Maltese
.183 Mule, hinny
.184 Zebra, quagga, etc.
.185 Zebrule, zebroid

636.2 Cattle Greater ruminants

May be divided like 636.081–.089, but for utilization use .21

.21 Uses

Subdivide like 636.088 See note above

.22 English cattle

.221 Old stocks

Forest cattle, wild white, Chillingham

.222 Beef breeds

1 **Short horns**

2 Durham

3 Teeswater

4 Lincolnshire

5 Red shorthorn

6 **Hereford whitefaced**

7 Polled Hereford

8 **Sussex**

.223 Scotch, Welsh and Irish beef breeds

1 **Aberdeen Angus**

Angus doddie, Buchan humblies, polled Aberdeen

2 **Galloway**

Blue gray

3 **West highland: Kyloe**

6 **Black Welsh**

.224 Dairy breeds

1 **Channel iland cattle**

2 Alderney

3 Jersey

4 Guernsey

.225 **Scotch and Irish dairy**

1 Ayrshire

2 Dunlop

3 Cunningham

6 Kerry

Dexter Kerry, Dexter shorthorn

.226 Dual purpose breeds

1 **Devon**

North Devon, Rubies, South Devon

2 **South Hams**

Hammers

3 **Polled Durham**

4 **Red polled**

5 Norfolk

6 Suffolk

7 East Anglian

8 **Longhorn (English)**

Dishley

636.23 German, Dutch and Swiss cattle

.232 Beef breeds

.234 Dairy breeds

1 **Holstein**

2 **Holstein Friesian**

3 **East Friesian**

4 **Oldenburg**

.235 **Dutch**

1 Dutch Friesian, Netherland, North Holland

4 Dutch belted: Lakenfelds, Lakenvelders, Veldlakers

6 **Danish**

7 Jutland

.236 Dual purpose

.237 **Swiss**

1 Brown Swiss

2 Simmental

3 Bernese

4 Spotted race

.24 French and Belgian

.242 Beef

.244 Dairy

1 **Breton, Brittany**

.245 **Belgian dairy**

1 Flamande, Flemish

2 Rosenstein

.246 Dual purpose

1 **Norman**

2 Cotentin

.27 Other European

.271 Russian

Kolmogorian

.28 Other countries

.282 American beef breed

1 **Longhorn, Texas steer**

.283 American dairy breed

1 **American Holderness, Holderness**

1 **French Canadian, Quebec Jersey**

.29 Allied animals

.291 Brahmin sacred cattle; zebu

.292 Bison family

1 **Bison; American buffalo**

2 **Cattalo**

Hybrid of bison and cow

3 **European bison**

636.293 Other bovidae
1 Bovinae
Clas here general works on bovinae, unless mainly relating to domestic cattle, 636.2. See also 636.291 Brahmin sacred cattle, zebu; 636.292 Bison family
2 **Buffalo or water buffalo** *Bubalus*
Bhains, mhains, arna, arni (Hindu)
Moonding (Sudan)
Karbo or Karbon (Malay)
Carabao (Philippines)
3 **Yak**
4 **Gayal, gaur**
5 **Musk ox**
7 **Rocky mountain goat**
8 **Antelope**
.294 Deer, reindeer
.295 Camel: Arabian, Bactrian; dromedary
.296 Other camelidae: lama, llama, alpaca
.3 **Sheep, goats Smaller ruminants**
May be divided like 636.081–.089, but for utilization use .31
.31 Uses
Subdivide like 636.088 See note above
.32 English breeds
.321 Longwool breeds (coarse wool)
1 **Cotswold**
2 **Leicester**
English Leicester, New Leicester or Dishley, Bakewell's Leicester
3 **Border Leicester**
Halfbred or Leicester-Cheviot or Cheviot-Leicester or Upland Leicester
4 **Lincoln**
5 **Kent or Romney marsh**
6 **Wensleydale**
Bluefaced Wensleydale, Wensleydale longwool, Wensleydale blueface, Teeswater
7 **Devon longwool, Southam nolts, Bampton nolts**
8 **South Devon or South Dum**
9 **Roscommon**
.322
.323 Shortwool breeds
Medium-wool; middle-wool; down sheep; mutton sheep
1 **Southdown, Sussex, Sussex down**
Including Underhill and Upperdown
2 **Hampshire down, improved Hampshire down, Wiltshire brook, Berkshire knot, Wiltshire hornd**
3 **Dorset down or West country down**
4 **Oxford or Oxfordshire down**
Before 1859 cald Down-Cotswold
5 **Suffolk down, old Norfolk, hornd Norfolk**
6 **Shropshire down, Morfe common**
.3241 **Dorset and Somerset horn**
2 **Ryeland or Lempster**
3 **Clun Forest, Wicklow (Irish)**
4 **Kerry Hill (Irish)**
5 **Radnor**

636.325 Mountain breeds
1 **Cheviot**
2 **Blackfaced**
Scotch blackface or blackfaced Scotch, Linton Forest, Lammermuir, Tweeddale, blackfaced highland
3 **Herdwick**
4 **Lonk or Lank Lancashire blackfaced**
5 **Penistone**
6 **Limestone, Limestone Crag**
7 **Ruf Swaledale**
8 **Shetland, Orkney, Hebrides**
.3261 **Derbyshire gritstone**
2 **Dartmoor**
3 **Exmoor Exmoor horn**
4
5
6 **Cornwall**
7 **Welsh mountain**
.33 German and Dutch breeds Swiss
.331 Low country or marsh sheep
Hornless and short taild
1 **Dutch Texel**
4 **Friesian**
East and North Friesland, Eiderstedt, Ditmarsh, Butjading, Zealand
7 **Northeast German**
Vaga, Elbingen
.333 Upland sheep, heath sheep (German heidsnucken)
1 **Pomeranian or Polish, Mecklenburg** (Spiegelschaf)
2 **Hessian**
3 **Bavarian or Zaupel Franconian** (Frankenschaf)
4 **Rhine**
5 **Hanoverian, Münster**
6 **Styrian or Carinthian**
.34 French and Flemish breeds
.342 Central plateau breeds
1 **Auvergne**
2
3 **La Marche**
4
5 **Limousin**
6
7 **Saintonge**
.344 Loire basin and north France breeds
1 **Berrichonne** (Crevant, Cher, Indre)
2 **Solognote** (Sologne)
3 **Comtoise** (Franche-Comté)
4 **Ardennes** (Poitou)
5 **Percheron** (Perche)
6 **Angevin** (Anjou)
7 **Cotentin**
8 **Bretagne**
9 **Charmoise** (Loir et Cher)

636.346 Pyrenese breeds
- 1 **Basquaise**
- 2 **Béarnaise**
- 3 **Landaise**
- 4 **Gasconne**
- 5 **Lauraguaise**
- 6 **Lot**
- 7 **Albigeois**
- 8 **Aveyron**
  - Varieties: Larzac, Lacaune, Olempe, Cevennes, Causse
- 9 **Barbarins**
  - Varieties: Millery, Lahune, Marthold

.35 Italian
- Neapolitan: long, broad or fat taild Bergamasker; Paduan; Italian or Sardinian, mountain

.36 Spanish breeds Merinos, etc.
- .361 Escurial or Estremadura
- .362 Guadaloupe
- .363 Pavlar
- .364 Infantado
- .365 Nigretti
- .366 Other Spanish
  - Aguirre, Atwood, Montares, Leonese, Churra
- .367 Other European merino breeds
  - 2 **British**
  - 3 **German**
    - 31 Prussian
    - 32 Hanoverian
    - 33 Saxon
    - 34 Silesian
    - 37 Hungarian
  - 4 **French: Rambouillet**
  - 8 **Danish, Swedish, etc.**
- .368 Other merino breeds
  - 1 **American**
  - 2 **Delaine**
  - 3
  - 4 **Australian**

.37 Other European sheep
- .371 Russian
- .372 North Europe: Scandinavia, Iceland, Faroe ilands
  - Ovis brachyura borealis
- .373 Southeast Europe
  - Long tail, broad or fat tail: Macedonian or Clementine
  - Long tail and small tail, mixt wool: Cretan, Macedonian, Wallachian, Moldavian or Hungarian

636.38 Other countries
- .385 Asiatic
  - Short tail, hornd: Tartar, Kalmuck, Kinghir, Buriat fat rump (ovis steatopyga); stump tail (ovis brachycerca). See also 636.386
  - Short tail, hornless: Mecca fat rump, Chinese (ongtischaf), Persian
  - Long tail, broad or fat tail, dumba (ovis platyura): Syrian, Anatolian, Karamanian or Levant, Persian, Bokhara, Karakul
  - Arabian or Bedouin
  - Kabardian or Circassian
- .386 African sheep
  - Long tail, broad or fat tail: Egyptian, Tunisian, Berber or Algerian
  - Long and small tail, hevy fleece: Bischarin (Nubian), dinka (sheep with manes, ovis africana), high leg or Guinea sheep (Kongo), Morvan (longipes), Libyan or Fezzan, Zunu or Angola
  - Stump tail (ovis brachycerca). See also 636.385

.39 Goats
- May be divided like 636.081–.089, but for utilization use .391
- .391 Uses
  - Subdivide like 636.088 See note above
- .392 British goats
  - Irish goat, longhaird
  - English goat, shorthaird
- .393 German and Austrian goats
  - Harz mts, Hinterwald, Hungarian, Langensalza, Saxony, Schwarzwald, Starkenburg, Westphalian, Wiesental
  - 6 Swiss goats
    - Alpine or common goat
    - Blackneckt Valais, Schwarzhals or Schwarztal, Glacier, saddle Guggisberg
  - 7 **Toggenburg**
  - 8 **Appenzell or flat-heded**
  - 9 **Saanen or Sarnen, Gessenay or Gassenay**
- .394 French goats: Tarentaise
- .395 Italian goats: Maltese
- .396 Spanish goats
  - Hornless, Granada, Malaga
  - Shorthaird reds, Spanish-Maltese
- .397 Other European goats
- .398 Other goats
  - 1 **American goats**
  - 5 **Asiatic goats**
    - Tibet (China), Angora (Persia), Syrian
    - 54 India
      - Kashmir (or shawl Tibet), Nepal (variety of Nubian), Surats, Tahr (shaggy brown Himalayan goat)
  - 6 **African goats**
    - Abyssinian (or Nubian), Guinea
    - 62 Egypt
      - Egyptian (or Nile), Theban, Zaraibi

636.4 Swine

May be divided like 636.081–.089, but for utilization use .41

.41 Uses

Subidivide like 636.088 (see note above) further subdividing .413 as follows: .4132 Bacon breeds, .4133 Lard breeds

.42 English breeds

.421 Small colord breeds

Use also for small breeds in general

1 **Essex**
2 **Sussex**
3 **Suffolk**

.422 Small white breeds

1 **Windsor**
2 **Small Yorkshire**
3 **Coleshill**

423 Large colord breeds

Use also for large breeds in general

.424 Large white breeds

1 **Yorkshire**
2 **Lancashire**
3 **Cumberland**
4 **New Leicester**
5 **Lincolnshire**
6 **Suffolk**

.426 Medium colord breeds

Use also for medium breeds in general

1 **Black Berkshire**
2 **Red Tamworth**
3 **Red Berkshire**

.427 Medium white breeds

1 **Middle Yorkshire**
3 " **Suffolk**

.43 German and Dutch breeds

.431 Lowland breeds Southern Germany

Use this also as general number for short-ear swine

Bavarian Franconian Halle Suabian
Düsseltaler Glanschwein Luzern Wurtemberg

.432 Hungarian short ear

Carpathian, Bergschlag
Bakonyer or Bakouner
Szalontaer

.433 Western and Northern Germany

Use this also as general number for large-ear. Large Polish, Meissner

.434 German marsh swine, large ear

Danish ilands Holland Mecklenburg Schleswig-Holstein
Hanover Jutland Oldenburg Westphalia

636.44 French

.441 Large-ear French Celtic breed

Northeastern France
Champagne

.443 Northwestern France

Breton
Norman Augeronne
Craonnoise
Mancelle
Angevin

.445 Southwestern France Spanish origin

French Perigord
Quercy
Limousin
Gasconne
Béarnaise

.447 Southeastern France

Provence
Roussillon
Languedoc
Bressane

.449 Swiss

Grison Bündener

.45 Italian, Neapolitan, Maltese, Tuscan, Romagnole

.46 Spanish and Portuguese

.47 Other European

.471 Curly bristles Southeastern Europe

.472 **Serbian Syrmian**

Mongolicza or Mangalicza
Curly-bristle Hungarian
Milos
Sumadia or Obrenovics

.473 **Croatian**

.474 **Rumanian, Moldavian**

Anatolian
Albanian

.475 **Russian**

.48 Other countries

.481 American breeds

.482 **Poland-China**

.483 **Red Jersey or Duroc-Jersey**

.484 **Other American**

1 Chester white
2 Hampshire
3 Cheshire
4 Victoria
9 Mulefoot Razorback

.485 Asiatic: Chinese, Tonkin, Siamese

.486 Africa

Cape breeds, Sennaar, Guinea

.489 Oceania

Papuan

636.5 Poultry

May be divided like 636.081–.089, but for utilization use .51

.51 Uses

Subdivide like 636.088; e. g. 636.513 Capon. See note above

.52 English breeds

.521 Dorking

.522 Sussex or Surrey

.523 Kent

.524 Orpington

.525 Redcap

.526 Other English

Lincolnshire buffs

.527 Scotch grays

.528 Other Scotch

Scotch bakies or dumpies Jumpers Dumbartonshire

.53 German and Dutch breeds

.531 Hamburg

.532 Lakenfelder

.533 Ramelsloher

.536 Styrian

.537 Bohemian

.538 Other

East Friesian, Westphalian, Thuringian, Alsatian, Nassau, Augsburg, etc. Magyar

.54 French and Belgian breeds

.541 Crèvecoeur

.542 Houdan

.543 La Flèche Le Mans Caux

.544 La Bresse, Louhans, Bourg, Bourbourg, Barbézieux, Coussade, Courtes-pattes

.545 Faverolles

.546 Gournay, Pavilly, Caumont

.547 Other

Coucou, French cuckoo, Mantes, Estaires

.548 Belgian breeds

Campenes or Campines, or Brackel; Brabant. Huttegen
Bredes or Guelders or Guelderlands. Coucou de Malines. Bruges

.55 Italian breeds

Use also as general number for Mediterranean breeds

.551 Leghorn

.552 Paduan or Polish (in England)

Also called Pompadour, Padouse, Polanders

.553 Polverara

.554 Ancona

636.56 Spanish breeds

.561 Castilian

.562 Minorcan

.563 Black Spanish

.564 Blue Andalusian

.565 Prat

.57 Other European

.571 Pavloff (Russian)

.572 Siberian fetherfooted

.573 Sultans

.58 Other countries

.581 American breeds

1 **Dominican, Dominique, Dominiker**

2 **Jersey blue**

3 **Bucks county**

4 **Java**

5 **Buckeye**

6 **Winnebago**

.582 **Plymouth rock**

.583 **Wyandotte**

.584 **Rhode Island red**

.585 Asiatic breeds

1 **Cochin China Shanghai**

2 **Brahmaputra Brahma, Gray Chittagong**

3 **Langshan**

4 **Malay**

7 **Japanese fowls**

White Yokohama
Phoenix

.587 Special varieties

1 **Bantams**

11 Common

12 Game

13 Polish

14 Asiatic

15 Japanese

.588 Other

1 **Game**

11 Azeel or Aseel

12 English game

13 Sebright (a bantam only)

14 Cornish Indian, or Indian (in England), or Cornish (in America)

15 Malay

2 **Deformd**

Rumpless or tailless or Wallikiki; Turkey necks, naked necks, Gillikins, nude

3 **Silkies**

4 **Frizzles**

636.59 Other fowls
.592 Turkey
1 **Original species**
11 American, or N. American 'original' or wild turkey (meleagris Americana)
12 Mexican wild turkey (meleagris Mexicana)
13 Honduras wild turkey (meleagris ocellata)
14 Crested turkey
2 **Bronze**
English Cambridge turkey
3 **Narragansett**
4 **Buff**
5 **Slate or Austrian whites** (in England)
6 **White, or White Holland** (in America)
7 **Black, or Norfolk or black Norfolk** (in England)
8 **Bourbon red, or Bourbon butternut, or Kentucky red**
.593 Guinea fowl
.594 Fezant
.595 Peacock
.596 Pigeons
1 **High clas fancy pigeons**
11 Pouters
12 English carrier
13 Runt
14 Barb
15 Shortface tumbler
2 **High clas toy pigeons**
21 Fantail
22 Owls
23 Turbits
24 Frilbacks
25 Jacobins
26 Trumpeters
27 Scandaroons
28 Florentine amalgamated, Hen
31 Dragoon, Horseman
32 Priests
33 Brunswick
34 Oriental frils
35 Homers, white homing, Antwerp
4
5 **Other toy pigeons**

636.597 Ducks
2 **English breeds**
21 Aylesbury
22 Indian runner
23 Blue Swedish
4 **French breeds**
Rouen, colord Rouen, also cald Rhone and Roan
8 **Other countries**
81 American
82 Cayuga, black Cayuga
Also called Big black and Lake duck
83 Muscovy
Colord Muscovy, Musk duck, white Muscovy
85 Asiatic: Pekin, white Pekin
By Chinese cald Mandarin
.598 Goose
3 **German: Emden, white Emden**
4 **French: Toulouse, gray Toulouse**
7 **Sebastopol**
8 **Other countries**
81 Wild or Canadian Gray wild
85 Chinese: white, brown
86 African
Also cald Indian, gray African and Guinea
87 Egyptian Colord Egyptian
89 Spurwing (Australia)
.6 Birds
For poultry see 636.5. Here ar clast domesticated birds useful for plumage or work, and pet birds
.61 Birds useful for their fethers
For geese see 636.598
.611 Ostriches
.62
.68 Song and ornamental birds
.681 Swan
.686 Cage and aviary birds
.7 Dogs
May be subdivided like 636.081—.089, but for uses see 636.72—.765
.71 Breeds
.72 Utility dogs
.73 Draft and other work dogs
.74 Watch dogs, herd dogs
.75 Hunting and sleuth dogs Carrier dogs
.76 Pet dogs
.765 Toy dogs
.77 Dogs in art
See also 758 Animal painting
.78 Dogs in literature
Essays, stories, biografy, etc.
.79 Other topics

636.8 **Cats**
.81 Breeds
.87 Cats in art See also 758 Animal painting
.88 Cats in literature
Essays, stories, etc.
.9 **Other: rabbits, guinea pigs, elefants, etc.**
Fur farming Fox, skunk, etc. farms.

637 Dairy and dairy products

.1 **Milk**
.11 Economics
.113 Dairy farms
Description of individual farms
.116 Finances and accounts
.117 **Expenses**
.118 **Returns**
.1185 Sale price
.12 Production and composition
.121 Choice of dairy cows
.122 Special food
.124 Milking
Milk pails, milk stools, milking tube
.125 **Artificial milkers**
.127 Composition of milk
1 **Fat**
2 **Lactose, milk sugar, lactin; galactin**
3 **Casein**
6 **Milk testing**
Creamometer Lactobutyrometer Lactodensimeter Lactoscope
Galactometer Lactocrite Lactometer Percent tube
7 **Milk analysis**
.13 Care of milk
.131 Bildings, dairies
.132 Installation, apparatus
1 **Refrigerating apparatus, milk cooler**
2 **Heating apparatus**
3 **Pasteurizers**
7 **Receptacles Storage Milk pans**
.133 Preservation
1 **Chilling**
2 **Heating**
3 **Pasteurizing**
.135 Transportation and sale of milk
Milk cars, milk wagons, bottles, cans

637.14 Utilization Consumption
.141 Whole milk
5 Evaporated milk
.142 Condenst milk
.143 Milk powder
.144 " farina
.145 " sugar
.146 Fermented milk Kumis
.147 Skim milk
.148 Cream
.16 Accidents Alterations Diseases Impurities Adulterations
See also public helth 614.32
.17 Milk other than cow's milk
.171 Mare's milk
.172 Ass's "
.173 Ewe's "
.174 Goat's "
.18 Substitutes for milk
.181 Vegetable milks
.2 **Butter**
.21 Economics
.216 Finances and accounts
.217 **Expenses**
.218 **Returns**
5 Sale price
.22 Composition
.221 Character and properties of butter
.222 Constituents of butter
.223 Grades of butter
.225 Butter testing
.227 " analysis
.23 Preparation of butter
.231 Bildings Creameries Butter factories
.232 Installation, apparatus
1 **Separators**
11 Skimmers
12
13
14 Centrifugal separators
2 **Churns**
3 **Washers**
4 **Workers**
8 **Presses, molds, stamps, etc.**

637.233 Butter making
- 1 **Separating cream**
- 2 **Churning**
- 3 **Washing**
- 4 **Working**
- 5 **Salting**
- 6 **Pasteurization**
- 7 **Ripening**

.235 Transport and packing
- 1 **Methods of packing** **Receptacles**

.24 Utilization Consumption
Including residues

.247 Buttermilk

.26 Alterations Diseases Impurities Adulterations

27 Renovation

.28 Substitutes for butter

.281 Oleomargarin

.282 Butterin

.3 Cheese

.31 Economics

.316 Finances and accounts

.317 **Expenses**

.318 **Returns**

5 Sale prices

.32 Character and composition

.321 Character and properties

.322 Constituents

.323 Grades of cheese

.325 Cheese testing

.327 Cheese analysis

.33 Cheese manufacture

.331 Cheese factories

.332 Installation, apparatus
- 1 **Borlen**
- 2 **Curd mils**
- 3 **Presses**

.333 Cheesemaking
- 1 **Curdling** **Rennet**
- 2 **Refining**
- 3 **Pressing**
- 4 **Heating**
- 5 **Putting in molds**

.335 Transport, packing, etc.
- 1 **Packing**
- 2 **Storage**

637.34 Utilization Consumption
Including by-products

.345 Milk sugar

.347 Whey butter

.35 Varieties

.351 Rennet cheese from cow's milk

.352 **Soft cheese, fresh, unripend**

.353 **" " ripend**
- 1 English
- 3 German: Limburger
- 4 French: Brie, Camembert, Neufchatel
- 5 Italian: Gorgonzola

.354 **Hard cheese**
- 1 English: Cheshire, Cheddar, Sage, Stilton
- 3 German, Swiss, etc.: Emmental, Edam
- 4 French: Gruyère, Gex
- 5 Italian: Parmesan
- 6
- 7 Other European

.355 **Rennet cheese from other than cow's milk**
- 1 From sheep's milk: Roquefort, Texel
- 2 " goat's "
- 3 " reindeer "
- 4 " buffalo "

.356 Sourmilk cheese from cow's milk
Cottage cheese, Dutch cheese, pot cheese, smear-case

.357 Sourmilk cheese from other than cow's milk

638 Useful insects raised or exploited

Insects whose products ar useful for food or manufactures

.1 **Bee keeping Apiculture**
For scientific or entomologic treatment see 595.799

.11 Economics Apitechny
Divided in general on lines of 631

.111 Economics

1 **Establishing apiary**
Location, site: woodland, valley, mountain, meadow. Ground, herbage, shade
Outapiaries

15 Sistems of managing
Supervision. Share sistem

2 **Laying out**
Wind breaks. Bee gardens

4 **Types of apiary**
Migratory, floating etc.

6 **Finances Accounts Bookkeeping**

7 Expenses

8 Returns Selling
Marketing

9 **Bildings Apiary**
Bee houses, bee cellars. For hives see 638.143

.112 Apitechny
When not otherwize provided for. Divided like 636.08

1 **Stocking apiary**
Selection: varieties of bees to buy. Overstocking locality

2 **Formation of stock**
Hive record-books

.12 Bees
Clas here everything on the hive bee, except scientific works on bees in general (Apidae), which ar clast in 595.799

.121 Natural history of bees
For diseases and hygiene see 638.15

1 **Organografy Descriptiv anatomy**

2 **Physiology**

3 **Embryology**

5 **Habits**
Life of the hive

52 Abode Migration
Swarming preparation and accomplishment. Clustering; scouts

53 Food
Nectar and pollen gathering. Honey and bee-bred making. Water; salt

54 Seasons
The bee year. Wintering preparations

55 Sexes
Queens. Drones. Workers

56 Breeding
Flight of queen. Care of young, etc. Brood rearing

57 Protection
The sting

6 **Products of bees**
Natural history viewpoint; for commercial see 638.17–.18
Comb, honey, wax, bee bred, bee gum

638.122 Races of hive bees *Apidae*

.123 Varieties of common honey-bee *Apis mellifica*

1 **Black bees (general)**

3 **Yellow bees (general)**

.124 European varieties

3 **Black or German bee**

5 **Italian or Ligurian bee** *Apis ligustica*

.125 Asiatic varieties

.126 African "

.1299 Other genuses of honey bee

.13 Pasturage

.131 General questions
Calendarial. Cultivation

.132 Nectar plants
When works dealing with divisions of 638.132 ar further limited by latitude, clas in 638.133

1 **Nectar: production by plant, composition, etc.**

2 **Cultivation of nectar-producing plants**

3 **By color of nectar**

32 Very light

33 Light

34 Medium

35 Dark

36 Very dark

4 **By plant type**
Trees, shrubs, vines, herbaceous

5 **Species**
Divided like 580

6 **By season**

62 Spring nectar

63 Summer "

64 Autumn "

7 **Physiograficly**
Water plants, medow, forest, rock etc.

8 **By elevation**
Mountain, sea level, etc.

9 **By country**
Divided like 940–999
For general works only; better clast, when possible, by latitude 638.133

.133 Latitudinal nectar-plant classification or distribution
Clas here works combining features coverd by 638.133 and 638.132 or 638.134–.137

2 **Tropic regions: 20 degrees N and S**

3 **Warm " 20–30 degrees**

4 **Warm temperate regions: 30–35 degrees**

5 **Temperate regions: 35–40 degrees**

6 **Cool temperate regions: 40–45 degrees**

7 **Cool regions: 45–50 degrees**

8 **Cold regions: 50 degrees —**

.134 Fruit trees and shrubs
Divided like 634

.135 Other trees and shrubs

.136 Clovers

.137 Other nectar plants

638.138 Pollen plants
- 1 **Pollen**
- 2 **By special points of view**
- 3 **Latitudinal**
  - Divide like 638.133
- 5 **Trees**
- 7 **Herbaceous pollen plants**

.139 Other pasturage
- 1 **Honey dew honey**
  - For honey dew in the sense of secretion from leavs and fruit. For afid honey, also cald honey dew, see 638.1392
- 2 **Afid honey**
- 8 **Bee-gum plants**
  - Propolis plants

.14 Bee culture
- Control of hive work

.141 General management
- 1 **Methods**
- 3 **Tools**
- 5 **Handling or controlling bees**
  - Smoking, smokers, veils, stings and remedies
- 6 **Calendarial** **Bee year**
- 62 Spring work: March-May
  - Awakening period
- 63 Summer work: May-June
  - Swarming period
- 64 Autumn work: July-Oct.
  - Harvest period
- 65 Winter work
  - Wintering
- 652 Outdoor wintering
  - Protectiv equipment
- 653 Indoor wintering
- 8 **Outapiary manipulation**
  - Moving bees

.142 Hives and parts, and their manipulation
- 2 **Fixt or single-piece hives**
  - Straw, clay, etc. Skeps
- 3 **Movable-frame hives**
- 32 Parts of movable-frame hives
  - Supers, sections, brood frames, partitions and bee escapes
- 5 **Observation hives**
- 7 **Queen-bee-raising hives**
  - Cell cups; queen cages

.143 Hive cleaning Bee transferal
- 1 **Hive cleaning**
- 4 **Bee transferal**

.144 Comb-bilding aid Feeding
- 2 **Comb-bilding aid**
  - Guides for comb. Frame manipulation
- 3 **Comb foundation**
  - Manufacture and use
- 5 **Feeding and foods**
  - Spring and fall feeding. Watering

638.145 Bee stock control
- 3 **Crossing hive-stocks**
  - Italianizing
- 5 **Queen rearing**
  - Mating queens. Shipping queens
- 6 **Introducing queen into hive**

.146 Increase of colonies Propagation aids
- 2 **Swarming control**
- 22 Natural swarming control
- 222 Primary swarm
- 223 Secondary swarm
- 224 Swarm hiving Swarm catchers
- 23 Artificial swarming control
  - Queen clipping
- 24 Prevention of swarming
- 25 Nonswarming hives
- 5 **Artificial increase of colonies**
- 52 Combining hives
  - Treating weak hives. Nuclei

.147 Other hive manipulations
- 1 **Pillage by bees: prevention**

.148 Harvesting
- Comb-honey removal

.15 Hindrances and protection

.151 General questions

.152 Diseases and other injuries
- Clas a special remedy with the special disease
- 1 **General questions**
  - Legislation; state inspection and control

.153 Adult diseases
- 2 **Of respiratory sistem**
  - Isle of Wight disease, acorine disease
- 3 **Of digestiv sistem**
  - Dysentery, May pest, nosema disease, bee paralisis or disappearing disease

.154 Brood diseases
- 2 **Ultramicroscopic**
  - Virus, sac brood
- 3 **Bacterial diseases** **Foul brood**
- 4 **Fungi and mold diseases**
  - Chalk brood, stone brood
- 6 **Chilled brood**

.155 Plant enemies
- Trapping plants: milkweed. Poisoning plants

.156 Animal enemies
- Divide like 590 but clas injurious insects in 638.157 insted of 638.15657

.157 Insect enemies
- Divide like 595.7

.158 Other injuries
- 2 **Poisoning**
- 22 By agricultural sprays

.159 Means of protection
- General works. Clas remedy for a special ill with corresponding number

638.16 Honey and other hive products
.162 Composition of honey
1 **Properties**
Color, taste, smel
2 **Constituents**
28 Poisond honey (natural)
3 **Grading**
For varieties of honey see 638.165
5 **Testing**
7 **Analyzing**
.163 Preparing honey
2 **Bildings: honey houses**
3 **Installation** **Apparatus**
Separators
4 **Separating**
42 Extracting Centrifuging
43 Straining: solar extraction, etc.
44 Clarifying
45 Liquefying
Boiling to prevent candying
47 Ripening, dehydrating
5 **Preservation**
6 **Packing**
.165 Varieties of honey
2 **Marketing forms**
22 Comb honey
23 Extracted honey Centrifuged honey
24 Straind "
25 Clarified "
26 Candied "
28 By color
282 Light
283 Amber
284 Dark
8 **By food plants**
Divided like 638.13
9 **By country**
When divisions 8 and 9 both apply prefer 8
.166 Alterations of honey
2 **Natural alterations**
Candying on standing
3 **Diseases**
Mold action
4 **Impurities (natural)**
5 **Adulterations**
See also under public helth 614.3 1
.167 Substitutes
Artificial honeys
.169 Uses of honey
1 **In medicin**
4 **As food**
Table sirup. In cooking
7 **In manufactures**

638.17 Wax
.172 Apparatus: solar extractors
.173 Rendering
Wax presses. For refining see 665.2
.176 Adulterants
.177 Substitutes
2 **Of vegetable origin**
3 " **animal** "
.179 Uses
.19 Bees in other than productiv relations
Fertilization of flowers
.199 Bees as nuisances
Attacking horses. Runaways. In towns
.2 **Silkworms**
.3 **Cochineal**

639 Hunting, trapping, fishing, fish culture, etc.

See also 799 for sporting side

.1 **Hunting, trapping, game preservs, etc.**
For fur farming (fox, skunk, etc. farms) see 636.9

.2 **Fishing as an occupation**

.21 Fresh water fishing River fishing

.22 Sea fishing

.3 Fish culture Pisciculture
Including turtle, terrapin, frogs

.31 In fresh water Stocking rivers

.311 Ponds Fish ponds

.312 Lakes

.313 Water courses

.32 In salt water

.321 Sea

.322 Brackish water Salt ponds Lagoons

.4 **Oysters and other mollusks Shelfish**
Oyster, clam, mussel, snail, pearlfishing, scallop, quohog, cockle, winkle, periwinkle

.41 Oysters

.411 Edible oysters

.412 Pearl "

.5 Crustaceans
Lobsters, crabs, crawfish, shrimps, prawns

.6 **Other sea food**
Sea urchin, echinus

.7

.8 **Leeches**

640 Home economics Domestic science

Public as wel as private household administration covering work of housekeeper, matron, steward, janitor, etc. in hotels, clubs, apartments, boarding houses, schools, restaurants, factories, offis and other commercial bildings, churches, theaters, railway stations, ships and other public gathering places
For economics of consumption, including standards of living, see 339; for care of library bildings see 025.9. Numbers for allied subjects in army and navy wil be provided under military and naval science. See also 331.83 Food, clothes and shelter of laboring classes

SUMMARY

641 **Food, cookery**
642 Serving, entertaining
643 **Shelter, house, home**
644 Heat, light, ventilation
645 Furniture, furnishings Decoration
646 **Clothing, toilet**
647 **Administration, household management**
648 Sanitary precautions, cleaning
649 Home care of children, sick, and infirm

.1 **Theories, utility, etc.**
.2 **Compends**
.3 **Dictionaries, cyclopedias**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**

.7 **Study and teaching**
Schools of housekeeping, experiment stations. Investigations of home conditions. For cooking schools see 641.07

.71 Schools and experiment stations
See 630.7 Agricultural schools, farmers institutes; 630.6 Farmers associations, granges, etc; 371.425 Manual training courses; 371.6764 Laboratory equipment for home economics courses; 375.64 Place in curriculum; educational values. 640.711–.74 may be used for keeping all phases of the subject in 640

.711 College and university courses and departments
Schools of college grade

.712 Secondary courses; high school

.713 Elementary courses; below high school

.714 Extension work
Courses for special needs: women's clubs, farmers' wives, etc.

.72 Research work: experiment stations, graduate courses
For Sage foundation see 306

73 Normal courses, teachers institutes, etc.

.74 Exhibits Museums

.9 **History**

641 Food Cookery

For physiology of nutrition, see 612.39; for dietetics and dietary standards, 613.2; for food values, 641.1

.01 Gastronomy Epicurism
Plesures of eating, esthetics of cookery, epicures (gourmets). For gluttony, see 178.91 and 613.25

.02 Compends

.03 Dictionaries, cyclopedias

.04 Essays, addresses, lectures

.05 Periodicals

.06 Societies

.07 Study and teaching Cooking schools, classes and clubs

.08 Polygrafy

.09 History and description
Divided like 930–999. Including foods characteristic of different peoples, but for preparation of specific dishes (i. e. recipes) peculiar to special countries see 641.59

641.1 Food chemicly considerd Food values Tables

For methods of chemic analysis see 543.1; for adulterations see 614.3; for commercial preparation or manufacture see 664; for physiology of nutrition see 612.39; for dietetics see 613.2

612.39 treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view, without regard to benefit or injury

613.2 treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods

641.1 translates scientific facts into familiar terms for cook and housekeeper, treats of the required amount of the different constituents and their proportion as found in various foods

.11 Organic food constituents

.12 Proteids or nitrogenous foods

Meat, egs, nuts, legumes, etc. See also 612.398

.13 Carbohydrates or nonnitrogenous foods

Vegetables, cereals, fruits, sugar See also 612.396

.14 Fats, oils

See also 612.397

.15 Inorganic food constituents

.16 Water

.17 Salts, mineral or ash constituents

.3 Animal and vegetable foods

Clas here also works dealing both with food material and its preparation

Subdivided like 630; e.g. 641.33 Cereals, 641.34 Fruits

.31 Prices Relativ cost

Quality and other factors in buying for table

.4 Food preservation Markets

Subdivide like 664 (not yet completed)

For commercial methods see Chemic technology 664.8–.9; for transportation see 656 (subdivision not completed)

.5 Cookery Cook books

General recipes, specific directions, in whatever form (books, cards, etc) for preparing food

Distinction between 612.39, 613.2 and 641.5: in 641.5 clas cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) ar secondary; in 613.2 clas dietaries and selection and preparation of food for special systemic conditions, with recipes subsidiary or with recipes and diet about evenly balanst; in 612.39 clas scientific study of physiologic effects of various foods, regardless of benefit or injury

See also 641.59 Recipes peculiar to special countries; 641.6 Cookery of specific substances; 641.7 Cookery by specific processes; 641.8 Composit dishes, ices confectionery, beverages

.52 Brekfast

.53 Luncheon, afternoon tea, supper

.54 Dinner

.55 Economic cookery

.56 Special conditions

Under limitations of age, helth, ethical or religious theories, etc.

.562 Children

.563 Invalids and aged Hospital cookery

.564 Ethical limitations

.565 Religious limitations

.566 Seasons and days: Lent, fast days, etc.

.567 Cults: Jews, Buddhists, etc.

641.57 Special situations

Adaptation to large numbers, large variety, and limitations of time, place or appliances

.572 Hotel and restaurant cooking

.573 Army and navy cooking

See also 355

.574 Shipboard cooking

Exclusiv of navy

.575 Camp and travel cooking

.576 Railway dining and buffet cars

.577 Itinerant companies; circuses, etc.

Methods of feeding large numbers en route or in temporary shelters

.578 Camp cooking

.58 Special utensils or fuels

.583 Cooking by oil

Including oil and gas together

.584 Cooking by gas

.585 Cooking by alcohol Chafing dish recipes

.586 Cooking by electricity

.587 Cooking by apparatus heated by steam or hot water

.588 Cooking by slowly applied heat

Aladdin ovens, fireless cookers

.59 Cookery of special countries

Clas here descriptions of national cookery or recipes for dishes characteristic of special countries or regions

.591 Frigid zone and cold wether

.592 Tropics and hot wether

Divide farther like 930–999, using these numbers preferably only for reference, shelving books under 641.5–.578

.6 Cookery; clast by material

Subdivide like 641.3

.7 Cookery; clast by process

.71 Baking, roasting

.72 Braising

.73 Boiling, simmering Soups

.74 Stewing

.75 Steaming

.76 Broiling, grilling

.77 Frying, sautering

.8 Composit dishes

Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea, supper

.81

.82 Entrées Made dishes

.83 Salads

.84 Sandwiches

.85 Confectionery, candies, sweets, bonbons

.86 Ices: ice cream, sherbet, water ices, etc.

.87 Beverages Soft drinks

See also 663 Manufacture of beverages; 663.8 Bartenders manuals, mixing drinks; 613.3 Hygiene of beverages

642 Serving Table Entertaining

See also 395 Etiquet

.1 Home and family meals

Brekfast, lunch, dinner, supper. Menus and servis
For tables of chemic constituents and calories see 641.1

.2 Refreshments

Afternoon tea, sandwiches, ices, soft drinks

.3 Camp, picnic and travel lunches

Lists of supplies; suitable food and dishes; packing and accessories. For recipes see 641.53; for camp cookery see 641.578

.4 Entertaining

.41 Private entertainments

.42 Small numbers

Luncheons, dinners, etc.

.43 Large numbers

Receptions, balls, garden parties, etc.

.45 Public entertainments

Banquets, dinners, clambakes, etc. For history of banquets, eating, etc see 394.1 under Public and social customs. For dining room see 643.4

.48 Toasts Table anecdotes and conversation

See also table talk in literary miscellany

.5 Table systems for large numbers

.51 Table d'hôte

.52 American plan

.53 European plan, à la carte

.54 Club: choice of combinations

.55 Harvard Memorial hall plan

Harvard university plan of a fixt charge for essentials, and coupons (alimentary milage) for extras

.56 Mixt plan

Table d'hôte and à la carte; table d'hôte and club

.57 Lunch counters Cafeteria

.58 School lunch rooms

Management, prices, rules for payment, suitable food, freedom of choice, etc
See also 371.716 School meals

.6 Serving Carving

Directions for setting table, changing courses, etc.

.7 Table furnishings

Linen, china, glas, plate, etc. Preferably clast here, tho possible to be considerd part of 645.66 Dining room furnishings

.8 Table decoration

Selection and effectiv arrangement of flowers, colors, lights, centerpieces etc.

643 Shelter: house, home

For types of houses and plans see 725, 727 and 728; for materials and construction see 690; for heating and ventilation see 628.8, 644 and 697; for lighting, 628.9 and 644.3; for plumbing and gasfitting see 696; for furnishing see 645

.1 Location, site

Social and religious character of neighborhood; accessibility, railways, tramways, etc; nearness to churches, schools, markets, etc. Property increasing or decreasing in value
For hygiene of soil and grounds (city, village or country) see 614.77; for sanitation, water supply and drainage see 628

.2 Plan

Requirements of house for convenient and economic administration; relativ situation and intercommunication of rooms, amount and direction of light, etc. Special rooms: kitchen, dining room, baths, etc. For detacht rooms and bildings see 728.9; for furnishing see 645; for architectural aspect of structural parts of house (foundation, floors, walls, etc.) see 721; for wall finish see 729.31

.3 Kitchen and its equipment

.31 Plan: situation and arrangement

Relation to rest of house. Housekeeper's requirements as guide to architect Light. For plans see 728 Residences, and 728.93 Detacht kitchens

.32 Ventilation

Carrying off odors, etc.

.33 Stoves, ranges, cookers, hot tables, fuels

See also 641.58 Cooking by special utensils or fuels

.331 Fireplaces, open fires: turnspit, crane, etc.

.332 Coal and wood Stoves and ranges

.333 Oil and oil stoves

.334 Gas and gas stoves

Including natural gas and acetylene

.335 Alcohol and alcohol stoves Chafing dish

.336 Electricity and electric stoves

.337 Steam heated cooking appliances Steam tables

.338 Slow and fireless cookers

Aladdin oven, Norwegian haybox. See also 641.588

.34 Machinery and laborsavers

.35 Utensils

.36 Pastry room

.37 Storeroom, larder Refrigerators

.38 Care of kitchen and accessory rooms

.39

.4 Dining room and adjuncts

.45 Serving room Butler's pantry

.47 Other pantries

.48 Cupboards

.5 Other special rooms

.52 Baths, lavatories, toilets

.57 Sun rooms, solariums: sleeping balconies, etc.

.58 Laundry

Place in house; for equipment see 648. See also 728.93 Detacht laundries

.6 Laborsavers

General: bells, telefones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648.52 Vacuum cleaners

.7 Repair

644 Heat Light Ventilation

.1 **Systems of heating**
Desiderata, relativ advantages for household
For varieties of apparatus and installation see 697; for sanitary engineering see 628.8

.15 Fireplaces Family harthstone
Open fire as household institution; mental influence
Sanitary advantages. See also 749 Artistic fireplaces

.19 Portable heaters: bedwarmers, warming pans, footwarmers

.2 **Fuels**
Relativ cost; cleanliness; labor involvd, e.g. hauling and carrying wood or coal and removing ashes. Chimney sweeping

.21 Wood

.22 Coal

.23 Oil, gasoline, etc.

.24 Gas

.26 Electricity

.3 **Systems of lighting**
Fixtures, fittings, accessories. Clas here general discussion covering fixtures and medium, their relativ advantages, etc. For medium alone see 644.31; for fixtures see 644.32

.31 Lighting medium
See also Chemic technology 665

.311 Candles

.312 Oil

.313 Gas

.314 **Acetylene**

.315 Electricity
See also 621.32 Electric lighting

.319 Other

.32 Apparatus and accessories
Subdivide each, if wisht, like 644.31

.321 Hand lamps Candlesticks

.322 **Lanterns**

.323 Table, banquet and piano lamps

.324 **Standards**

.325 Wall lamps Sconces

.326 Chandeliers Ceiling fixtures

.5 **Ventilation**
Most material belongs elsewhere: hygienic influence of air and light 613.1; sanitary engineering 628.8; ventilating apparatus 697.9. For advantages of fireplaces see 644.15

645 Furniture, carpets, upholstery Decoration

For plan and furnishing treated together see 643
See also hygiene 613.59; architectural decoration 729; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

.1 **Floor coverings: carpets, rugs**

.2 **Wall coverings**

.3 **Window and door furnishings**
Screens, shades, awnings, draperies, wether strips

.4 **General furniture**
See also 645.6 Furnishings for special rooms

.41 Chairs Footstools

.42 Couches Settees

.43 Tables

.44 Desks

.47 Cushions, pillows, etc.

.48 Linen
Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings

.49 Other

.5 **Ornaments**
Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricabrac

.6 **Special rooms**
For kitchen see 643.3; for laundry see 648

.61 Hall and stairs
Hatracks, umbrella stands, etc.

.62 Drawing room Reception room Parlor

.63 Library

.64 Study or offis

.65 Living room
Clas here furnishings of room used as combined reception room, library and living room

.66 Dining room
For table equipment and decoration see 642.7–.8

.67 Bedrooms and nursery
Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649

.68 Bathrooms Lavatories Toilets
Fittings and supplies. See also 646.7 Bathing

.69 Other rooms
Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic

.8 **Outdoor space**
Verandas, balconies, roof gardens
For sleeping balconies see 645.67. See also 712 Private grounds; 717 Arbors seats, outlooks

646 Clothing Toilet

See also ethics of dress, display 177.4; ecclesiastic costume 247.7; clothing as related to economics of laboring classes 331.83; bleaching and dyeing 667.1–.3; academic costume 378.29; history of costume 391; clothesmaking 687; hygiene of clothing 613.48; adulteration of textils 614.37; for uniforms and liveries see occupations to which they pertain

.01 Psychology and economics of fashions
Reasons for change of fashions; expense of fashionable dressing

.02 Compends

.03 Dictionaries, cyclopedias

.04 Essays, lectures, addresses

.05 Periodicals

.06 Societies Dress reform societies

.07 Study and teaching

.08 Polygrafy

.09 Adaptation to climate or season

.091 Clothing for cold wether and frigid zones

.092 " " hot " " tropics

.1 Materials Textils and fibers

With reference to domestic use, or domestic use and hygiene combined. For hygiene of materials see 613.481; for general works on textils and fibers see 677 Manufacture of textils

.11 Cotton

.12 Linen Flax Hemp

.13 Wool Mohair, alpaca, camel's hair, rabbit's hair, etc.

.14 Silk

.15 Lether

.16 Fur

.17 Other animal materials: fethers, hair, whalebone

.18 Other vegetable materials

.181 Rubber

.182 Paper

.183 Celluloid

.184

.185 Straw Raffia

.186 Other fibers: jute

.19 Other materials Tinsel, aluminum, asbestos, etc.

.2 Sewing Knitting Crochet

For fancywork see 746

.21 Plain sewing
Running, backstitching, hemming, overhanding, etc.

.24 Mending Darning

.26 Knitting and crochet Tatting
For knitting as a business, whether done by hand or by machine, see 677.661; for crocheting as a business see 677.662; for tatting as a business see 677.663

.27 Crochet

.3 Clothing divided by wearers

Clas here trade catalogs; e.g. Liliputian bazar catalog 646.36
See also 391 Costume; 687 Clothesmaking as a trade

.32 Clothing for men

.34 " " women

.36 " " children

646.4 Clothing divided by purpose

Including directions to amateurs for cutting and making, economic use of material, suitability of material for purpose, adaptation of style to material and purpose, choice of color, etc. For limitation to special kinds of garments see subdivisions below; e.g. patterns or catalogs of underwear 646.42
Subdivisions .42–.48 may be farther divided by 2 Men, 4 Women, 6 Children

.42 Underwear

.43 Outer house garments
Gowns or dresses, coats, trousers, etc.

.45 Outdoor garments
Cloaks, coats, overcoats, shawls, sweters, etc. See also 646.5 Hedgear, millinery; 646.48 Accessories: gloves, mufflers, etc.

.46 Outer footwear
For hose see 646.42

.47 Garments for special purposes
Negligée, lounging or smoking, yachting, bathing, hunting, riding, etc.

.48 Accessories
Neckties, collars, cuffs, belts, aprons, caps, handkerchiefs, gloves, mufflers, garnitures, etc.
For outdoor hedgear see 646.5

.5 Millinery Outdoor hedgear

See 687.4 Millinery as a business

.52 Hats, caps, etc. for men

.54 Hats and bonnets for women

.55 Other outdoor hedgear for women
Hoods, scarfs, etc.

.56 Hedgear for children

.57 For boys

.58 " girls

.6 Cleaning Drycleaning

For laundry see 648.1

.7 Toilet Cosmetics Bathing

Care of hair, nails, teeth, etc.
For historic customs see 391.5–.6. See also hygiene, 613.4 care of body

647 Household organization and administration

.1 Household accounts: finances, cost

See also bookkeeping 657

.2 Personnel

Intelligence offis, employment bureau
Clas here regular employees or assistants; for occasional employees see 647.29. For ethical considerations, see 173.8. See also political economy, 331 Labor and wages

.21 Manager
Superintendent, housekeeper, steward. See also 640.8

.22 Male employees

.23 Female "

.24 Foren "
Races and nationalities: orientals, negroes, etc.

647.25 Indoor servis
Cook, butler, waitress, parlor maid, lady's maid, chambermaid, nurse, laundress, furnaceman, etc. For housekeeper, steward, etc. see 647.21; for outdoor servis see 647.3
.29 Other employees
Emergency help, household registers
.3 Servis outside the house
Coachman, gardener, laborers
.6 Wages Hours Duties
.9 Cooperativ and collectiv housekeeping
Hotels, clubs, apartments, commercial bildings, churches and other public and semipublic establishments or rooms
See also 692.9 Bilding laws; 728 Residence architecture
.91 Tenements
See also 728.1 Tenement house architecture; 331.83 Housing of laboring classes, including tenement house laws; 613.53 Hygiene of tenements
.92 Apartments, flats
See also 728.2 Apartment house architecture
.93 Cooperativ housekeeping
See also 334.4 for economic aspect
.94 Hotels Clubs
See also 728.4 Clubhouse architecture; 728.5 Hotel architecture
.95 Restaurants, tea rooms, etc.
See also 642.5 Table systems for large numbers
.96 Public bildings Institutions
General administration and care affecting helth and convenience of occupants and public; janitor's duties. May be subdivided if wisht like 725; e.g. 647.962 Administration of offis bildings, or 647.9623 if so close classification is preferd
See also 362 Hospitals, asylums, etc; 365 Prisons
.97 Cottage systems

648 Sanitary precautions: laundry, cleaning

.1 Laundry Washing
Private, cooperativ, public. For other processes of clothes cleaning see 646.6 Dry cleaning. For sanitary precautions see 648.5–.6; for pests see 648.7
.11 Administration Accounts
.12 Marking
.14 Equipment
Collectiv: specifications and cost. Clas specific appliances with processes to which they belong
.15 Hand equipment
.16 Power "
.18 Supplies
Soap, starch, bluing, powders, reagents
.2 Washing
Requirements of temperature, ingredients, etc for different materials Washing directions
.22 Washing by hand
.23 " machine
.25 Starching
.27 Bluing Tinting

648.3 Drying Driers Extractors Wringers
Confined or open air Temperature Effect on dyes of freezing, etc.
.4 Ironing
.42 By hand Sad irons
Electric and gas heated irons, etc.
.43 By machine Collar and shirt machines, fluting irons, etc.
.45 Power machinery Mangle
.5 Cleaning and sanitation of house or bilding
See for sanitary engineering 628; for plumbing 696; for dry cleaning 646.6; for chimney sweeping 644.2
.52 Sweeping and dusting
Floors, walls, moldings, furniture; implements, vacuum cleaners, etc.
.54 Washing
Porcelain, glas, windows, mirrors, paint, including table ware, bricabrac and fixtures. For washing textils see 648.2
.55 Polishing
Silver, knobs, scutcheons, pipes and other metals
.6 Disinfecting
Waste pipes, traps, etc. Household disinfectants. See also 649.8 Care of sickroom; and public helth, 614.48 Disinfecting apparatus
.7 Pests; traps, poisons, insectifuges

649 Home care of children, sick and infirm

This provides for persons requiring special adjustment of household administration: children and invalids
.1 Care of children
See also 136.7 Child study; 173.5 Duties of parents
.2 Rooms Nursery
.3 Food
See also 613.22 Diet of infants; 641.5 Cookery for children
.4 Clothing and care of body
See also 646.36 Children's clothing, outfit and making; 646 4 Clothing for various purposes; 613.4 Hygiene of bathing and clothing; 687.13 Manufacture of children's clothing
.5 Exercise Recreation
See also 613.7 Hygiene of recreation; 790 Amusements
.55 Amusements: toys, dolls, games
.6 Manners Habits
See also 173.6 Duties of children
.7
.8 Care of invalids and the infirm Sickroom

650 Communication Business

.1 Theory .2 Compends .3 Dictionaries, cyclopedias .4 Essays, addresses .5 Periodicals .6 Societies, conventions .7 Study and teaching .8 Collections .9 History

651 Offis economy

In industries and mercantil business 651 represents the nonproductiv branch, overhed charges. See 658 for productiv branch alone of manufacturing or mercantil concern

REFERENCES TO ALLIED SUBJECTS

029	Literary methods and laborsavers	648.5	Cleaning
613.6	Hygiene of employment	.6	Disinfecting
.7	" recreation and sleep	.7	Pests
628.6	Sanitation, house drainage	696	Plumbing
.8	Ventilation and heating	697	Heating and ventilation (construction)
.9	Lighting		

SUMMARY

Environment	.1	Space
	.2	Equipment
Structure	.3	Organization
Function	.4	Administration
	.5	Records
	.6	Special material
	.7	Correspondence

651.1 Offis bildings and rooms

See also 725 Public bildings (architecture)

.11 Location

Separate bildings; rooms in manufacturing bildings, in offis bildings, etc

.12 Site

With reference to space, air, light, soil, slope of ground, etc.

.13 Provision for growth

.14 Arrangement

For economy of time and space; floor space, wall space

.16 Special rooms

Directors, trustees	Typers
Manager	Lunch and conversation rooms
Accountant	Rest rooms
Dictation	Safety vaults, safes

.19 Safety

See 614.8 Protection of human life from accidents; 331.823 Safety (under Economics)

.2 Equipment

.22 Fixtures

Partitions, counters, ledges, gates, stationary shelvs

.23 Furniture

.231 Chairs, stools, settees

.232 Tables

.233 Desks

.234 Revolving cases

.235 Furniture for using books, etc.

Reference-book holders

.236 File cabinets, vertical files

See also 651.54 Storage methods

.239 Other

Hatracks, umbrella stands, clocks, bulletin boards, etc.

651.24 Furnishings and decoration

Put here only material limited to offis. For other relations see Decorations in Relativ index

.241 Floor coverings

May, if needed, be further subdivided as follows:

1 Linoleum, corticine
2 Matting
3 Carpets
4 Rugs
5 Doormats: rubber, wire etc.

.242 Wall treatment: covering or finish, pictures

.243 Window and door furnishings (shades, curtains, portières)

.26 Mekanical appliances

For general or common use or belonging to a centralized sistem; nonindividual; not limited to a special department

See also 652 Typers, duplicators, addressing machines, telautografs; 657 Protectografs, bookkeeping machines and machines for checks, handling money, etc.

.262 Oral communication: telefones (wall, desk, in booth)

Offis requirements and accessories. Number, location

See for telefone business 654.6; for telefone engineering 621.385

5 **Local sistems: interfones**

8 **Speaking tubes**

.263 Dictating machines

.264 Calculators, tabulators, statistical and adding machines

See also 510.8

If closer clasification is needed ad heds below:

1 Adding machines

11 Listing

Those devized primarily for adding, even tho capable of other processes (multiplying, dividing, subtracting) by special manipulation

12 Nonlisting

13 Tally counters

3 Approximate calculating devices

Based on logarithmic scale: slide rules, etc.

4 Exact calculating devices (mekanical)

5 Grafic or area calculators Planimeters

6 Statistical machines; e. g. sorting or tabulating: Hollerith

.265 Numbering machines

.266 Fastener, seal and other presses

For multigraf and other duplicators see 652

.267 Mail and shipping room devices

Letter and merchandise scales; folding and wrapping appliances, etc.

.268 Lifts, carriers, pneumatic tubes, etc.

Local, between desks or separate rooms of same offis

See also engineering 621.86 Hoisting and conveying machinery; 621.549 for construction and 654.8 for operation and sistems of pneumatic tubes

.269 Other mekanical devices

.3 Organization

See also 347.7 Commercial law, for legal rights and restrictions; 380 Commerce and communication, for relations of corporations to state and public; 658.14 for financial organization of a business enterprize

.32 Work

Branches, departments, divisions, sections, etc.

.321 Planning department

651.34 Workers

Offis alone and those common to both offis and productiv branch. See 658.3 for those having to do with productiv branch alone. May, if desired, be further divided like 331.11. Topics coverd by 651.34 and also by 651.37 ar clast in 651.37

.37 Grades Titles and duties

.372 **Offisers: executiv, director** Hed of enterprize

.373 **Staf: department, division and section heds**

5 Understudies, deputies

.374 **Employees, routine workers**

2 Bookkeepers

3 Clerks, stenografers, typists

4 Telefone operators, etc.

6 Pages, messengers, runners

7 Janitor force, laborers

8 Apprentises, volunteers Not on payroll

.38 Pay: salaries, wages, pensions

Offis notes and discussions affecting the individual staf. For gereral discussion see economics, 331.2 Remuneration for work

If wisht, 651.38 may be subdivided like 331.2; e. g. 651.382 Wage scales; 651.3825 Extra pay: bonuses, bounties, etc.; 651.384 Profit sharing; 651.3852 Pensions (subdividing stil further like 651.37 if necessary)

.4 Administration

Offis efficiency; i. e. ratio of work accomplisht to expenditure of time, effort, material (goods, money, space)

.41 Time

.412 Disposal of time

By those above routine grades: offisers and staf

Regular engagements: monthly, weekly, daily

Public hours: for business callers, appointments; telefone vs personal interview. Private hours: interruptions only for urgency

.42 Daily hours Holidays and vacations

.421 Daily hours

1 **Records Record clock**

2 **Punctuality Tardiness**

.422 Hours for meals Lunch room

See also 651.16 Special rooms

.423 Special work

1 **Evening**

2 **Sunday**

3 **Holiday**

.424 Work by hour Overtime, extra hours

1 **Making up lost time**

2 **Payment for overtime**

3 **Effect of overstrain on employees**

4 " " " " servis

.425 Holidays

1 **Weekly half holiday**

2 **Legal holidays**

.426 Vacations

1 **Time of year**

2 **Length**

3 **Continuous or in instalments**

4 **Sabbatic year**

651.427 Absences for sickness or other causes

See also 651.4241 Making up lost time

.428 Attendance at meetings

1 **International**

2 **National**

3 **State**

4 **Local**

.44 Staf rules General requirements Incentivs Disciplin

.441 Conversation

.442 Personal calls or work

.443 Soliciting money, subscriptions, contributions

.444 Respect and care for property

.445 Personal appearance, dres, uniforms

.446 Curtesy Indifference

.447 Incentivs

See also 331.97 Encuragements to work offerd by government etc.

2 **Suggestion sistems**

.448 Disciplin

2 **Fines**

3 **Stoppage of wages**

For general question see 651.3812

6 **Stoppage of privileges**

.449 Staf meetings Relations between staf members

.45 Methods of increasing effectivness

Stimulation of effort

For motion study see 658.5423; for organization of work see 651.32

.451 Variety of work vs monotony

.452 Labor savers

Business view, advantage to employer; for personal view see 029.2 See also 651.26 Mekanical appliances; 651.465 Fittings, and 651.466 Supplies

.453 Methods, routines

Principles; e.g. cart not to be put before horse. For general discussion of value of methods see 029.1 Clas routine for each kind of work under its number but here may be put chief's reference file of routines, subdivided by clas number or alfabeted by subject

.455 Training of new appointees

.456 Information or 'front' desk 'Plant' messenger servis

Sistematic collection and distribution of intraplant communications and small articles. Discussion as administrativ economies. For place in organization see 651.32

.457 Mail and express routine

Receiving. Distributing: opening and dating. Collecting. Sending For place of this section in the organization see 651.32

651.46 Material
Fittings and supplies considerd together. Use of bargain catalogs
.461 Quality
Economies in adapting to purpose; e. g. extravagance of expensiv cloth envelops for cheap printed circulars
.462 Quantity
Quantity discounts, advantage of buying in bulk insted of in packages, etc.
.463 Sizes
See also 029.1 Standard sizes
.464 Use, care of stock, stock closets or room
Times (days and hours). Requisition routine
.465 Fittings
Distinguisht by capacity for repeated or long wear from supplies, which ar consumed in uzing; e. g. inkstands ar fittings; inks ar supplies
History and discussion of writing materials is in 652. Enumeration below is for offis memoranda of source of supply, prices, kind and quantity to be kept on hand, etc.
1 **Cutting:** shears, knives, pencil sharpeners, paper cutters, letter openers, punches
2 **Fastening:** clips, pins, rings, binders, mucilage bottles, etc.
3 **Writing:** inkstands, penholders, fountain pens, rubber stamps, ink pads, steel erasers, typewriter pads
4 **Drawing, mesuring, weighing:** compasses, dividers, straight-edges, rulers; tape mesures; scales, balances
5 **Calculating:** tables, charts; interest, amortization and wage tables; index numbers, etc. See also 510.8
6 **Holding:** racks, baskets, coin trays, boxes
7 **Memoranda:** ticklers, card trays, guides, spindle files, etc.
9 **Other:** brushes, pliers, sponge cups, perpetual kalendars (wall or desk) etc.
.466 Supplies
Perishing with use; see note to 651.465
2 **Fastening:** mucilage, glue, paste, adhesiv clips, rubber bands
3 **Writing:** paper, pencils, steel pens, ink, typewriter ribbons, blotters, rubber erasers, ink eradicators
7 **Labeling:** tags, gumd labels, letters and figures
8 **Memoranda:** kalendars, notebooks
9 **Other:** blanks, sponges
.47 Inventories
.472 Frequency and times
.473 Forms
.474 Perpetual, automatic

651.5 Records Files and filing
Matter, form, treatment
.51 Form
.512 Book
.513 Card sistem
2 **Cards**
5 **Sheets, loose leavs Looseleaf books**
For publication in looseleaf form see 655.53
8 **Strips** (clocks, adding machines, etc.)
.52 Mode of production
.522 Hand written
.523 Machine "
.525 Automatic: e. g. clock records
.53 Arrangement, classification
.531 Bases: department, subject, function, person, priority, importance
.533 Sistems
2 **Alfabetic:** persons, places or subjects in a b c order; self indexing
4 **Numeric:** 1 2 3 order; requiring index
5 **Cronologic:** by dates "
6 **Clast:** numeric, alfabetic or mixt notation, requiring index
.54 Storage methods
For file furniture see 651.236
.542 Flat on side
Cabinet, box and pigeonhole filing
For roller shelving see 022.46; for cases for maps and drawings see 022.485
.543 Rolled
Horizontal: on shelvs, wall or in drawers
On end: in closets or stalls
.545 Erect, on shelvs
Books, binders, file boxes
.546 Vertical files
.55 Accessories
For furniture see 651.23
.552 Guides
Hight. Projections: advantages; width
Material: paper, wood, metal, celluloid
Reinforcement: label holders, celluloiding
.554 Labels
.56 Permanent records
Elements determining establishment; authorization
.563 Statistics
See also 311
2 **Data**
4 **Tables**
6 **Grafs** (line, block and other charts)
.57 Temporary records and papers
Engagements, memoranda and other desk miscellany
Pigeonhole sistems Ticklers

651.6 Special material
For accounting records see 657
" stock and sales records see 658.7–.8
.62 Specifications
.63 Estimates
.64 Plans, drawings, maps
.65 Printed matter (issued by offis)
Order records and blanks. File of samples
.66 Employes records
Applications, recommendations, grading, time
.67 Letter files
See also 651.533 Arrangement
.672 By correspondents
Rules for determining 'correspondents': writer or firm, offiser or institution, etc. For numeric sistem see 651.5334
.673 By subject
.675 Removals: 'out' indexes, markers, dummies
.677 Copies of outgoing letters
In books, separate from letters
Carbond, on back of original or on separate sheet; roller copies; filed with letters
.678 Transfer files (for storage)
.7 Correspondence, reports, etc.
.71 Stationery
See also 659.1 Advertizing
.712 Paper: size, quality, weight, tint, etc.
For papermaking see 676; for history of writing material see 652
.713 Letterheds
.714 Memo heds
.715 Bil heds
.717 Postcards
.718 Envelops
.72 Blanks
For saving letterwriting; e. g. forms for extracts from minutes. For other special purposes see topic
.74 Style Business English
Conciseness, spelling, capitalization, punctuation, margins, spacing
See also 029.6
.75 Letters
.752 Definitness and accuracy; paragrafing and tabulating
.753 Opening (address) and closing; postcard style
.754 Inclosures Separate related matter
.756 Form letters, automatic (ansers by key numbers)
.757 Follow-up
.758 Interstaf notes
Directness, breves. See also 653.2 Notehand abbreviations
.76 Notises, calls for meetings
.77 Minutes, committee business
See also 651.72
.78 Reports
Organization of material; analisis
Transmission and introduction
Statistics Recommendations, etc.

652 Writing; material, typewriters, cypher
653 Abbreviations Shorthand
.01 Theories Available material Shading Position Detacht vowels
.02 Practicability for general use Teaching in public schools
For methods see 653.07
.03 Speed See also 653.046, Verbatim reporting
.04 Applications
.041 Personal notes and records
.042 Correspondence
.043 Amanuensis work
.044 Newspaper work
.045 Shorthand job offises
.046 Official reporting, court and legislativ
.047
.05 Periodicals If strictly limited to one system, clas with that system
.06 Societies " " " "
.07 Education Shorthand schools Teaching, privately or in classes
.08
.09 History Divided by countries like 930–999
.1 Abbreviations Omissions of silent letters, vowels, etc.
Covers desirability, dangers, lists, and all general matter about use of recognised abbreviations. See also 421.4 Phonetic spelling; 421.8 Abbreviations
.2 Abbreviation systems
Brief longhand. Fonoscribing, etc. For telegrafic codes, see 652
Covers only systems of quick writing with common characters.
.3 Stenografies
Includes both discussions and systems with arbitrary signs and new characters
.31 Before 1837
.32 Gurney
.33 Gabelsberger
.34 Stolze (Dettmann)
.35 Taylor (Baker; Harding; Odell)
.36 Cross
.37 Scovil
.38 Duployé (Pernin, Sloan)
.4 Phonetic shorthand Phonografies
Limited to phonetic stenografy, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants
.41 Before Pitman (1837)
.42 Bell
.43 Jones
.44 Williams
.5 Pitman old vowel scale systems
.51 Benn Pitman
.52 Graham
.53 Scott-Brown
.54 Marsh
.55 Thornton
.56 Haven
.57 Allen

653.6 **Pitman new vowel scale systems**
.61 Izaac Pitman
.62 Munson
.63 Longley
.64 Burnz
.7 **Connected vowel systems**
.71 Lindsley's takigrafy
.72 Everett
.73 Barrows
.74 Bishop
.9 **Foren systems** Divided by languages like 400

The heds above ar for English systems or (as in 653.3) foren systems adapted to and used for English. Other systems ar groupt here by languages, but history of shorthand in special countries is in 653.09

654 Telegraf Cables Signals

Business aspects. For engineering see 621.38; for codes see 652

.1 **Telegrafic instruments**
.2 **Duplex, quadruplex, multiplex telegrafs, etc.**
.3 **Printing, perforating, dial telegrafs, etc.**
.4 **Telegrafic construction; poles, wires, condits, etc.**
.5 **Cables Submarine**
.6 **Telefones**
.7 **Alarms; burglar, fire Annunciators, bels**
.8 **Speaking tubes Pneumatic tubes**
.9 **Signals** See also 534.83 Navigation signals; 623.7 Military signals

655 Printing Publishing Copyright

.1 **History of printing**
.11 Origin, invention
.111 Claims of Gutenberg, Mainz
.112 Claims of Coster, Haarlem
.12 Celebrations, anniversaries
.121 1640
.122 1740
.123 1823
.124 1840
.13–.19 Printing in special countries Divided like 930–999
.2 **Type and typesetting**
.21 Type founding Tools of the art
.22 Electrotyping and stereotyping, etc. Patent blocks
For Photoelectrotyping, see 777
.23 Patent types, logotypes, etc.
.24 Faces, sizes, styles Specimen books
.25 Typesetting: composition, proofreading, distribution
Artistic composition: taste, display, job work
.27 Imposition Locking up, etc.
.28 Typesetting and distributing machines Linotype, monotype

655.3 **Practical printing** For Calico printing see 667.3
.31 Printing presses
.32 Press work: making ready Color printing Cuts
Cutting stock
.33 Drying: hydraulic pressing, etc.
.35 Stamps, stamping, etc.
For stencils see 652
.36 Machines: paging, numbering, etc.
See also 654.3 Printing telegrafs; 651.265 Hand numbering machines; 652 Typewriters, addressing machines
.37 Nature printing From plants, etc.
.38 Printing for blind See also 371.91 Education of blind
.4 **History of publishing and bookselling**
Divided by countries like 930–999
.5 **Publishing and bookselling**
.51 Selection of mss
For freedom of press *vs* censorship, see 323; Morals of press 179.1
.52 Relations to authors
Copyright payments, prices of mss bought
.53 Format
Size, paper, type, illustrations, binding
.54 Cost of manufacture
Retail prices and discounts to dealers
.55 Advertising, press copies and notices See 659.1 Advertising
.56 Retail bookselling Prices and discounts to buyers
.57 Subscription book publishing, canvassing
.58 Publishing societies
.59 Publishing by governments, institutions, etc.
.6 **Copyright Literary property**
.61 Perpetual or common law right
Including ethics of copyright
.62 Copyright in other matter than books
Music, mss, lectures, trademarks
.63 International copyright
See also 341.5 International private law
.64–.69 Copyright in special countries
Divided like 940–999

656 Transportation: railroading, etc.

Running of trains, train and boat timetables, luggage and freight handling, lists of sailings: crews and shifts, disciplin, etc.
For mechanical interrelations of track and rolling stock see 625.2
For reports, government regulation, rate schedules, etc. see 385 for railroads, 386 for canal and river and 387 for ocean and air transport

657 Bookkeeping Accounts

658 Business methods Industrial management

Clas here 'management engineering' in broadest sense. By those specializing in industrial management this number may be preterd to 621.7 for material on *management* of engineering plants, if they wish to bring into one place *all* business management. For material on management of a specific business see notes under 658.9 and 658.92–.999

See also 651 Offis economy, for clerical details required by whole organization; 657 Accounting, collecting and auditing; 659.1 Advertizing

When a topic given as a detail under 658 is provided for more broadly elsewhere in the Clasification it is recommended that libraries in general uze the other number. the provision here being primarily for persons engaged in productiv business and for those specializing in the subject, for use in arranging not only books and pamflets, but also correspondence, notes, clippings etc.

REFERENCES TO ALLIED SUBJECTS

016 Bibliografy of subjects
026.6 Business libraries
150 Psychology
174 Business ethics
310 Statistics
325 Immigration
330 Economics
See 658.3 for special application in Management
332.1 Banks and banking
336.2 Taxation
338.1 Agricultural products
.2 Mining "
.3 Water "
.4 Manufactured "
.5 Prices
.6 Gilds
.7 Corporate industries
.8 Monopolies Trusts
.9 Industrial legislation
340 Law
347.4 Contracts
.7 Commercial law
368 Insurance
370 Education
380 Commerce Communication
510 Mathematics
530 Physics
540 Chemistry
550 Geology
600-690 Useful arts
613.6 Hygiene of employment
614.8 Protection of human life from accidents
621 Mekanical engineering
.3 Electric engineering
.7 Mils Factories Engineering works
.8 Power transmission
.86-.87 Hoisting and conveying machinery
.9 Machine tools
628.5 Industrial sanitation
654.6 Telefones
.7 Alarms Bels
.8 Speaking tubes Pneumatic tubes
.9 Signals
655.5 Publishing and bookselling
659.1 Advertizing
662.6 Fuel
693.5 Concrete construction
720 Architecture
744 Mathematic drawing
760 Engraving
770 Fotografy

SUMMARY

Origin and environment	.1	Generalities
	.2	Plant
Structure	.3	Industrial economics Personnel
	.4	
Functions	.5	Shop management Production
	.6	
	.7	Buying Recieving Storing Shipping
	.8	Selling
Kinds of business	.9	Specific industries

Form divisions following may, if needed, be attacht to any number, provided same combination of figures is not otherwize assigned; e.g. Cost of night work 658.3812002

658.001 Statistics
.002 Quantities and cost
.003 Contracts and specifications
.004 Designs and drawings
.005
.006
.007 Laws and regulations
.008 Patents
.009 Reports

.01 Theory, business efficiency
Team efficiency (externally directed), factors being: *a*) personal units; *b*) organization; *c*) methods; *d*) appliances
Clas here general works on business efficiency and those not falling distinctly in 651.4, 658.5 or 029
See 029 for personal (selfdirected) efficiency, factors being: *a*) physique; *b*) mentality; *c*) temperament; *d*) general education; *e*) special training; *f*) methods; *g*) appliance; *h*) personal regimen, hygiene; *i*) environment (sanitation, light, air, etc.); *j*) standards, ideals, moral and social qualifications
.02 Handbooks, forms
.03 Dictionaries, cyclopedias
.04 Essays, addresses
.05 Periodicals
.058 Year books, directories
.06 Societies, fairs, congresses, conventions
.07 Education, training, study, teaching
.08 Tables and calculations
.09 History Divided like 930-999
.1 **Generalities**
.11 Promotion
.112 Location
.113 Developing interest: prospectuses
.114 Form of enterprize
1 **Individual proprietorship**
2 **Partnership**
3 **Limited partnership**
4 **Stock companies**
5 **Corporations**
6 **Business trusts**
.14 Financing: raising capital
.141 Sources of capital
.142 Promoters
.143 Promoting combinations
.144 Direct sale of securities
.146 Basis of capitalization
.147 Owned capital
Stok: common, preferd, no par value
.148 Borrowd capital
Short term (notes); long term (bonds, mortgages)

658.15 Financial management
.151 Control: directors, trustees Recievers
.152 Investment of capital funds
.153 Working capital
.154 Budget sistem
.155 Profit and loss
.156 Dividends: cash, stok, liquidating
.157 Surplus and undivided profits
.16 Organization Reorganization Mergers Consolidations
.162 Holding companies
.163 Affiliated companies
.165 Interlocking directorates
.166 Intercompany transaction
.167 Realization Liquidation
.168 Reorganization
.17 Expenses
.171 Taxation
See also 336.2
2 Federal taxes
3 State taxes
4 Local taxes
5 Franchize and license taxes

658.2 Plant
Suitability of bilding, whether bilt, bought or rented. For factory requirements see 621.7, also note under 658; for construction see 690; for architecture see 725.2 Business and commercial bildings; 725.4 Factories. For offis arrangement and equipment see 651.1-.2
.21 Location Site
.211 Climatic conditions
.212 Land value
.213 Labor availability
.214 Transport facilities
For transport within the plant see 658.281
.215 Availability of raw material
.216 Proximity to market
.217 Source of power
.218 Site
With reference to space, air, light, soil, slope of ground, etc. Includes occupancy of bildings used partly for other purposes
.219 Other
.22 Material
.23 Design
.231 Future expansion Provision for growth
.232 Relation to product
.234 Floor space
.235 Storage facilities
.236 Offis space
See also 651.1 Offis bildings and rooms
.237 Servis
Rest rooms, coat rooms, cafeterias, lunch rooms, hospitals
.238 Water supply
For watersupply engineering see 628.1, for installation in bildings 696.1
.239 Sanitation
Baths, lavatories, toilet rooms
.24 Lighting
See also 628.9 for lighting in general, 621.32 electric lighting, 665.7 gas lighting
.241 Natural
.242 Artificial
.25 Heating and ventilating
See 628.8 for heating and ventilation in general, 697 for methods of heating and installation

658.26 Power
.261 Power generation
See also 621.19 Power plants, steam engineering; 621.31 Electric power production; 621.312 Electric power plants
.262 Power transmission
See also 621.8 Power transmission, mekanical engineering; 621.319 Transmission of electric energy
1 **Belting**
.27 Production equipment
.28 Servis equipment Laborsaving devices Safety equipment
.281 Transport Conveyer sistems Handling materials Trucks
For conveying and hoisting machinery see 621.86
1 **Hand conveyers and hoists**
2 **Power " " "**
3 **Gravity " " "**
.282 Sales equipment
.283 Safety devices and equipment
Better clast in 614.8 Protection of human life
.284 Fire protection and equipment
Better clast in 614.84 Protection of human life
1 **Water pails**
2 **Hose**
4 **Automatic**
5 **Chemic extinguishers**
.29 Other
.3 **Industrial economics Personnel**
This group provides for the economic aspects. The divisions ar the same as under 331 and only the principal ones ar given here; where desired (e.g. by those who wish to keep together all material relating to business management) these divisions may be subdivided, as in table for 331, by adding to 658.3 the figures following the decimal point in 331; e.g. Arbitration, under Economics, 331.155 under Industrial economics, 658.3155. In general libraries these topics ar better clast in 331
.31 Relations of capital to labor
.32 Remuneration for work
.33 Labor of children
.34 " " women
.35 Work under certain unfavorable conditions
.36 Pauper labor Cheap foren labor
.37 Different classes of workers Skild and unskild labor
.38 Laboring classes
.39 Other questions
.4

658.5 **Shop management Production**
.51 Planning
.511 Job analisis
1 **Instructions**
.512 Routing
.513 Skeduling
.514 Dispatching
.516 Standardization
1 **Of product**
2 **" equipment**
.52
.53 Time records Production charts
.531 Time cards
1 **Time mesuring and recording devices**
.532 Performance records
1 **Predetermind performance charts**
2 **Accomplishment charts**
.54 Rate setting
For wages see 658.32
.542 Operation studies
1 **Time study**
3 **Motion study**
5 **Production study**
.543 Time allowances
.544 Fatigue study
.55
.56 Shop organization
.561 Shop methods
.562 Inspection Quality control
.563 Tool room
For machine tools see 621.9
.565 Job assigning Instructions
.567 Waste
1 **Salvage Utilization of waste**
.57 Reserch and experiment
.571 Reserch
.572 Experimental work
.573 Testing
.575 Product design
.58 Shop maintenance
.581 Machinery maintenance
.582 Tool maintenance
.583 Emergency repairs
.59
.6

658.7 **Buying Recieving Storing Shipping**
.71 Depar ment organization
.72 Buying methods
.721 Contract buying
.722 Buying direct from producer
.724 Buying thru salesmen
.725 Buying by mail
.726 Buying on open market
.727 Buying thru bids
.73 Prices
.74 Orders
.75 Follow-up
.76
.77 Recieving
.771 Checking
.772 Inspection of goods bought
1 **Methods**
.773 Invoices
.78 Storing and material control
See also 658.235 Storage facilities
.782 Classification and simbolization of stores
.783 Records Requisitions Forms
.784 Stockrooms
1 **Finisht parts**
2 **Sales stock**
.785 Storerooms
1 **Raw material**
2 **Purchast parts**
4 **By-products**
.787 Inventory
1 **Depreciation**
2 **Frequency and times**
3 **Forms**
4 **Perpetual, automatic**
.788 Shipping
1 **Organization**
2 **Routine**
21 Instructions
22 Checking methods
25 Bils of lading
26 Express forms
27 Shipping notises
4 **Packing**
41 Specifications
42 Methods
44 Receptacles Wrappers
45 Materials
47 Slips
5 **Transport and delivery**
Vouchers and reciets

658.8 **Selling**
.801 Psychology of salesmanship
.807 Training of salesmen
.808 Sales analisis
.81 Department organization
.811 Sales manager
1 **Sales submanager, assistant sales manager**
.813 Order clerk
.814 Billing clerk
.815 Follow-up clerk
.817 Sales records
.82 Trade promotion
.821 Methods of creating demand, of successful competition
For advertizing see 659.1
.824 Sales letters
.825 Form "
.826 House organs
.83 Marketing product
.831 Outright sales
.832 Consignment
.833 Agency
.84 Channels of sale
With goods at hand for delivery
.841 Salesrooms
.842 Markets, fairs
.843 Peddling
.844 Auctions
Selling from samples
.845 Sample rooms or exhibits
.846 Commercial travelers (shop to shop, store to store)
1 **Salary**
2 **Commissions**
3 **Expenses**
.847 Canvassers, agents (house to house)

658.85 Sales Salesmanship
.855 Display of goods or samples
.856 Exchanging Rectifying errors
.857 Approval sistem
.86 Wholesaling Jobbing
.87 Retailing
.871 Department stores
.872 Mail order houses
.873 Chain stores
.875 Commission business
.876 Brokerage
.877 Branches Agencies
.88 Collections
.881 Cash
.882 Credit
.883 Instalments
.884 Enforcement mesures
.89 Salesmanship in special business

For business having special number preferably clast in the number for that business, but may be clast here with subdivision for the business like main classification

.9 Specific industries

Business having special number (e. g. insurance business 368) is preferably clast in that number

.91 Mercantil business not having special number
.92–.999 Special material

May be subdivided like 620–699, e. g. drygoods stores 658.977, or for indexing purposes the method of the Institut International de Bibliographie may be adopted, i. e. the use of the colon between numbers to show the relation between the subjects, e. g. management of a drygoods store 658:677; or an 'r' (for relation) may be substituted for the colon, e. g. 658r677; or the 2d number may be written below the 1st, e. g. 658/677 With the last 3 methods, which allow for other kinds of business beside those clast in 620–699, the .9 may be omitted, since the peculiar form of the combination would bring the material into a group, which, according to I I B rules, would be arranged immediately after 658, before any of its decimal divisions

659 Other topics

.1 Advertizing

660 Chemic technology

.1 .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 .9 History of chemic technology

661 Chemicals

.1 Chemic elements Divided like 546
.2 Acids: sulfuric, nitric, etc.
.3 Alkalies: potash, soda, ammonia
.4 Salts For common salt see 664.4
.5 Ammonia salts
.6 Sulfates and nitrates
.7 Cyanids

662 Pyrotechnics Explosivs, fuels etc.

.1 Pyrotechnics
.2 Explosivs See 622.23 Blasting; 623.4 Ordnance
.3 Gunpowder
.4 Fuses, percussion caps
.5 Matches
.6 Fuel: coal, peat, natural gas, etc.
.7 Charcoal, coke See also 644.22 Domestic economy 669.8 Metallurgy
.8 Artificial fuel See also 644.2 Domestic economy 669.8 Metallurgy

663 Beverages

See also 178 Temperance 614.35 Adulterations For milk see 637.1

.1 Fermented
.2 Wine
.3 Brewd
.4 Beer
.5 Distild
.6 Artificial mineral waters: soda water
.7
.8 Mixing drinks Barkeepers manuals
.9 Chocolate, coco Commercial mixing of teas, coffees, etc.

664 Foods

For Adulterations see 614.31 Public helth. See also 641 Domestic economy

.1 Sugar, molasses, glucose, etc.
.2 Starch, tapioca, sago, etc.
.3 Artificial butter, oleomargarin Lard, compound lard
For butter, milk, and cheese see 637 Dairy
.4 Salt
.5 Spices Condiments
.6 Yeast Baking powder
For bred see 641.631 Cookery
.7
.8 Methods of preservation: fruits and vegetables
.9 Preservation of meat and fish

665 Oils Gases
.1 **Candles Torches**
.2 **Animal oils and fats** See also 664.3 Foods
.3 **Vegetable oils and fats**
.4 **Mineral oils: paraffin, ozocerite, asphaltum**
.5 Petroleum, kerosene
.6 **Lamps** See also 644.32 Domestic economy
.7 **Illuminating gases Calcium light**
.8 **Other gases**
.9

666 Keramics Glas etc.
.1 **Glas** See also 748 Staind glas
.2 **Enamel**
.3 **Keramics** See also 738 Pottery, porcelain
.4 Clay See also 553.61 Economic geology
.5 Porcelain
.6 Stoneware, earthenware, pottery
.7 **Bricks Tiles** See also 691.4 Bilding materials; 695.3 Roofing
.8 **Artificial stone** See also 691.3 Bilding materials
.9 **Cements Limes Mortars** See also 691.5 Bilding materials

667 Bleaching, dyeing, etc.
.1 **Bleaching**
.2 **Dyeing Artificial colors Silk and wool**
.3 Cotton dyeing and calico printing
.4 **Inks: writing inks, indelible inks**
.5 Printing inks
.6 **Paints and pigments** See also 698.1 House painting; 751 Fine arts
.7 **Varnishes Polish Lacker** See also 698.3 Varnishing
.8 **Japan Blacking**
.9

668 Other organic chemic industries
.1 **Soap**
.2 **Glycerin**
.3 **Glue**
.4 **Gums and resins**
.5 **Essences, perfumery, essential oils and ethers, etc.**
See also 646.7 Toilet
.6 **Fertilizers** See also 631.8 Agriculture
.7 **Distillation: coal tar, etc.**

669 Metallurgy and assaying

History of metals goes here, not in 553, 622, nor 671

.1 **Iron and steel**
.2 **Gold and silver**
.3 **Copper**
.4 **Led**
.5 **Zinc**
.6 **Tin**
.7 **Mercury and other metals**
.8 **Fuels and furnaces Slags**
.9 **Assaying**

670 Manufactures

Specific topics go where of most interest. These heds ar for the *general* subject of metal, wood, etc. manufactures, and for such specific manufactures as ar not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g. a steam engin is certainly made of metal, but its manufacture should go under 621.1, not 672. The caracter of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library wil incline to the special subject, as a more minute classification is thus obtaind, and references under 670 anser inquiries for all the library has on the subject of bras or rubber or paper manufactures. Whether groupt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses ar various the general hed is better; e. g. bels ar for scores of distinct uses, but their manufacture is a unit; but all churns ar for the dairy

671 Articles made of metals
672 **Of iron and steel; stoves, cutlery, etc.**
673 **Of copper and of bras, bronze and other industrial copper alloys**
Bels etc. See also 739

674 Lumber and articles made of wood
For cabinet making see 684. For lumbering as a feature of forestry see 634.9

675 Lether and fur and articles made of them
For saddlery, shoemaking, gloves, belts, trunks etc. see 685

676 Paper and articles made of paper

677 Textils: flax, cotton, wool, silk, metal fibers, etc.

This expansion of 677 is on lines of that of Institut International de Bibliographie, in Classification Décimale (cited as C D) but some changes hav been made, as specificly indicated below, and such divisions must be regarded as tentativ til agreement is reacht between D C and C D

SUMMARY

.1 Flax and similar materials: hemp, jute etc.
.2 Cotton " " "
.3 Wool " " "
.4 Silk " " "
.5 Other fibers
.6 Special fabrics
.7 Cordage and trimmings
.8 Auxiliary industries

This division covers manufacture of yarns, cloths and other products obtaind from textil fibers, which ar made in pieces or in great length, including those from artificial, mineral and metal fibers. It therefore includes carpets, tapestries, tulles, laces, nets, knit goods, etc., also cords, braids, ribbons and even wire fabrics and metal cloths, but 680 should be consulted for articles made from these fabrics and produced wholesale. e.g. redy-made garments and upholsteries.

The group thus consists of many allied but special industries, each of which is caracterized by nature of fibers uzed and for which the same divisions can be employd to specify the similar elements. Under 677.028 hav been compiled the generalities concerning these textil industries as a whole, i. e. the questions common to the different products and elements establisht in the textil industries as defined above, and specially the data relating to general methods of working textil materials and the machines employd.

677.1–.4 ar devoted to industries usually termd those of spinning mils, including not only changing textil fibers into yarns suitable for weaving but also the manufacture of fabrics from these yarns. To form these 4 divisions all the different textil materials uzed ar united with the 4 materials which may be regarded as types of the common manufactures, i.e. flax, cotton, wool and silk, including with each of these whatever concerns the materials which undergo similar treatment or require similar methods of manufacture. Under subdivision 1 is placed the material taken for the representativ type, this subdivision being always developt as a standard for the simmetrical development of the subsequent special subdivisions for similar materials.

In 677.5 ar brought together fibers which can not be assimilated with those preceding, as wel as those special products which they serv to manufacture and which ar obtaind by braiding or similar processes rather than by real weaving.

In 677.6 is brought together everything concerning manufacture of special fabrics, i.e. cloths or similar products which do not enter into the usual production of spinning mils but ar more often made by special mils, tho they may uze fibers, the preparation of which has been treated in the preceding sections. Here ar clast figured and brocaded fabrics, draperies, velvets and the varius pile fabrics, felts, tapestries, openwork fabrics, tulles, laces etc., also knit goods, nets, tricots, etc. These ar manufacturing branches which may in a general way uze the elementary yarns or cloths mentiond in the previus groups.

In 677.7 ar groupt certain industries which uze textil fibers, but obtain products other than cloth, such as cords, ropes, trimmings, and including metal cables and insulations for electric wires.

677.8 is reservd for industries allied with or auxiliary to textil industries.

677.01 **Theory Usefulness Value**
.02 **Compends**
.028 Technic
For general works. For manufacture from special fibers see 677 1–.5. These subdivisions of .028 ar incorporated from Classification Décimale, but there they directly follow 677.0, thus conflicting with DC regular form divisions 02–07.
2 Chief processes
21 Preparation of fibers
22 Spinning and twisting
23 Clasifying and numbering yarns
24 Weaving Braiding
28 Special processes
3 Raw materials
4 Secondary materials

677.0285 Machines
51 For preparing fibers
Pickers, beaters, boilers, dryers, breakers, combs, cards etc.
52 For spinning, twisting, doubling and cabling
54 For weaving
541 Preparing machines
Winders, warpers, dressers
542 Looms
543 Finishing machines
6 Textil products
61 Of spinning
Warp and weft yarns
62 Of twisting
Double yarn, sewing thred
64 Of weaving
7 Tests of yarns and fabrics
71 Chemic
72 Microscopic
73 Resistance
74 For moisture or other conditions
.03 **Dictionaries Cyclopedias**
.04 **Essays Addresses Lectures**
.05 **Periodicals**
.058 Yearbooks Directories
.06 **Associations Societies Clubs**
.063 Congresses Conferences
.07 **Education Training**
.08 **Polygrafy**
.09 **History and general local treatment**
Divided like 930–999

.1 Flax and similar materials: hemp, jute etc.

See also 677.7 Cords

.11 Flax industry
For subdivisions of 677.11 a o is uzed in C D before the other figures; e.g. 677.1102, 677.1103 etc. insted of 677.112, 677.113 etc. See note under 677
.112 Flax working
1 **Preliminary processes**
See also 633.52 Agriculture
11 Rippling raw material
By combing, beating, rolling
12 Retting
Theory of retting. Practical fermentation. Different processes
121 In running water
122 In stil water
123 On the ground and in open air
124 Industrial retting
13 Breaking and scutching
Separating tow and long fibers
2 **Spinning and twisting**
21 Spinning proper
211 Tow working
Carding: by tow cards, outside and inside work, breaker cards, lapping machines
For use of tow in ropemaking see 677.711

677.112 212 Working of long fibers
213 Drawing and spinning
By drawing frames, fly frames, spinning frames, reels
22 Twisting processes
221 Spooling Twisting Reeling Drying
222 Dyeing, bleaching or trying yarns
223 Preparing yarn in skeins
Beating, pegging, separating, weighing, marking, packing
224 Preparing yarn in balls
Lustering, waxing, placing on bobbins for balls, ball warps
225 Preparing yarn on bobbins
3 Numbering flax yarns
4 Weaving processes

.113 Raw materials of flax industry
1 Fibers retted in running water
2 " " " stil "
3 " " on ground and in open air
4 " " by industrial processes

.115 Machines
1 For preliminary processes
11 Rippling
Rippling tools: hackles, scutchers, beaters. Rippling machines: with cylinders, with scutch blades
12 Wooden retting boxes Retting boilers Drying boards
13 Breaking and scutching
Tools for breaking by hand: Flemish mallet or arm breaker, hand brake. Machines for mekanical breaking: Picardy breaker with rollers, American breaker with fluted cylinders, Cail breaker. Tools for hand scutching: scutching board, scutch blade, swingling tool, little hand scutch, hackles, flaxdresser's knife. Machines for scutching: Flemish or Irish swingling or scutching machines, hackling machines
2 For spinning
Spreders, cutters
4 For weaving

.116 Flax industry products
1 Spinning and twisting
11 Warp and weft (filling) yarns Medium warp yarns
12 Twisted yarns
Sewing thred. Yarns in skein; 2 or 3 ends per package. Yarns in balls, boxes, packages, or on bobbins
4 Weaving
41 Cloths with plain, square or mixt weavs
411 Sheeting, cambric, smock linen, holland, suitings, canvas etc.
412 Hevy cloth, sail cloth, tarpaulin
413 Openwork cloth, embroidery canvas, packing cloth (burlap), filter cloth or linen etamin
See also 677.65 Openwork fabrics
43 Linen serge, bed ticking, upholsteries, dres goods, etc.
46 Damasks Diaperd fabrics
48 Prints Ornamental cloths

.117 Testing and accepting flax manufactures

677.118 Low grade products and waste
Subdivided like 677.11:
.12 Hemp industry
.13 Jute "
.14 Sunn hemp industry
.15 Ramie industry
.2 Cotton and similar materials
.21 True cotton industry
For subdivisions of 677.21 a 0 is used in C D before the other figures; e.g. 677.2102, 677.2103 etc. insted of 677.212 and 677.213 etc.
.212 Cotton working
1 Preliminary processes
11 Ginning by hand or machine
12 Opening and beating Mixing
13 Carding Drawing Combing
15 Oiling
2 Spinning and twisting processes
21 Spinning processes in general
211 Drawing and doubling slivers without twist
212 " " " " with "
213 " " spinning
214 Steaming Humidity
215 Packing
22 Twisting processes
221 Spooling Twisting Reeling Drying
222 Bleaching Dyeing Mercerizing yarns
223 Making into skeins
224 " " balls
225 Winding on bobbins
226 Placing in boxes
3 Numbering
4 Weaving processes
See also 677.2154 Weaving machines
41 Spooling
42 Warping
43 Sizing or dressing
45 Weaving on looms of 1 or more shuttles

.213 Raw materials

.215 Machines Equipment
1 For preliminary processes
11 Cotton gins
12 " beaters
2-beater scutchers, beaters, eveners, finisher lappers, openers, cleaning trunks, mixers
131 Cotton cards
Flat cards, roller cards, mixt cards, roller breakers, card strippers doffer cards
132 Drawing frames
Lantern drawing, rubber condensers, fly frames, jack frames
2 Spinning frames
Continuous or throstle frames, spinning jenny, jenny mule, selfacting mule
4 Weaving machines

677.216 Cotton industry products
- 1 **Spinning**
  - Yarns for weaving: in skeins, on bobbins
- 2 **Twisting**
  - Sewing twist, ply twist, Irish, Scotch, Alsatian twist, etc. Noncabled and cabled yarns, unpolisht and polisht yarns. Darning, embroidery and knitting twists. Yarn in skeins, on tubes, cones and bobbins, and in boxes
- 4 **Weaving**
  - 41 Jaconet, foulardine, madapollam, beaverteen, tarlatan, percale, plain calico and creton, gingham
    - For printed calico and creton see 677.21648
  - 42 Muslin, lawn, long cloth Sheeting
  - 43 Lingette
  - 44 Sateen Satinette
  - 46 Cotton lampas, plush, velour, corduroy, velvet, velveteen
  - 48 Printed cotton goods
    - Prints; printed calico and creton. For plain calico and creton see 677.21641

.217 Testing and accepting cotton fabrics

.218 Low grade products and waste
- 1 **Varius wastes**
  - 11 Beating wastes
  - 12 Carding and combing wastes
  - 13 Spinning and weaving wastes
- 2 **Carded cotton**
- 3 **Wadding**
- 5 **Cleaning cloths** **Dish cloths**

.22 Typha wool industry

.3 Wool and wool materials
- See also 677.63 Felting and hatmaking

.31 Sheep wool industry
- For subdivisions of 677.31 a 0 is uzed in C D before the other figures, e.g. 677.3102, 677.3103 etc. insted of 677.312, 677.313 etc.

.312 Wool working
- 1 **Preliminary processes**
  - 11 Sorting
  - 12 Scouring
  - 13 Washing
  - 14 Working wool in laps
    - Beating, picking, dusting, willowing, drying
  - 15 Oiling
  - 16 Carding
    - By breaker, intermediate and finisher card
  - 17 Drawing of gill box Combing Backwashing
    - For degreasing, scouring see 677.31212
- 2 **Spinning processes**
  - For dyeing wool before or after spinning see 667.2
- 4 **Weaving processes**
  - Manufacture of ordinary smooth fabrics; bobbining, warping. For manufacturing flannels and felts see 677.62

.313 Raw materials
- Wool, hair, flocks, floss

677.315 Machines
- 1 **For preliminary processes**
  - Scouring machines, etc.
  - 14 Willows
  - 15 Oiling attachments Automatic lubricators
  - 16 Bur pickers Wool cards Breaker, intermediate and finisher cards
  - 17 Wool combs
- 2 **Spinning frames** **Mules**
- 3 **Machines for ordinary weaving**
  - Cop winding machines for ordinary and fine yarns; mekanical warpers. For machines for making wool cloth see 677.622

.316 Wool industry products
- 1 **Products of spinning proper**
  - Yarns for weaving, carded yarns for wool cloth, combed yarns for smooth fabrics
- 2 **Products of twisting**
  - Knitting yarns, embroidery yarns
- 4 **Weaving products**
  - Smooth fabrics, plain weavs, serge, merino. For felted and other special fabrics see 677.6

.317 Testing and accepting wool products

.318 Wool working wastes Shearing waste

.32 Alpaca industry

.33 Goat hair industry

.336 Products
- C D form: 677.3306
- 4 **Cashmeres** **Scotch and Indian cashmeres** **Mohair**
  - C D form: 677.33064

.34 Camel hair industry

.35 Rabbit hair industry (for spinning)

.36 Reworkt wool industry

.362 Processes
- C D form: 677.3602
- 1 **Preliminary processes**
  - Washing rags, sorting, extracting vegetable constituents by sulfuric acid, shredding the rags
  - C D form: 677.36021

.363 Reworkt wool yarn Mungo (felted rags) Shoddy (unfelted rags)
- C D form: 677.3603

.37 Vegetable wool industry

.371 Pine wool
- 2 **Processes**
  - C D form: 677.37102
  - 21 Pine needle distillation, with water
    - C D form: 677.371021
- 8 **By-products**
  - Pine needle essence
  - C D form: 677.37108

.372 Peat fiber wool

677.4 **Silk and similar materials**
See also 677.6 Industry of special fabrics

.41 Mulberry silkworm (Bombyx) industry
For subdivisions of 677.41 a o is used in C D before the other figures; e. g. 677.4102, 677.4103 etc. insted of 677.412, 677.413 etc.

.412 Silk working processes
See also 638.2 Silkworms

1 **Preliminary processes**

2 **Spinning and twisting**

21 Spinning

211 Reeling Preparing raw silk

212 Throwing Spinning and twisting Winding and cleaning Doubling

22 Twisting processes
Manufacture of sewing twist; hardening; cabling

4 **Weaving**

41 Preparing warp Warping

42 Weaving proper

43 Finishing processes
Calendering, singeing, shearing, polishing, dressing, gumming, lustering, embossing, moiring
See also 667.2 Silk dyeing

.413 Raw materials
Silk from ordinary silkworms (Bombyx)

.415 Machines

2 **For spinning and twisting**
Basins for reeling raw silk, reels, reeling apparatus. Winding and cleaning. Doubling and throwing machines; Chinese thrower

4 **For weaving**

41 For preliminary operations
Warpers

42 For weaving proper
Looms for figured fabrics, Jacquard looms, temples

43 For finishing
Roller machines. Apparatus for lustering, embossing, printing, shearing, moiring. Calender Vaucanson

.416 Silk industry products

1 **Spinning products**
Raw, reeld, thrown silk. Tram. Organzine

2 **Twisting products**
Sewing thred, twisted yarn for hosiery, ply yarn, cordonnet, cabled yarn

4 **Weaving products**
Pure silk and mixt fabrics. Mixt fabrics may if preferd be clast under 677.61

41 Taffeta, florentine, marceline, louisine, faille, foulard, crepe, silk muslin

43 Cloth with chevrons, lozenges, squares Batavia Ras de St Maur Virginia, royale, orleantine

44 Princess satin, atlas, merveilleux, etc.

46 Figured taffeta, pompadour taffeta, damask, brocade, lampas, silk droguet, brocatel, striped silks, pekins, check patterns

47 Rep, gros d'Écosse, velvet, plush

48 Printed silks Piece-dyed silks

49 Finisht silks
Calenderd, drest, lusterd, embost, moird

.418 Low grade products and waste
Defectiv, unreelable cocoons. Blaze; steam waste; frisons; wadding; floss silk, fine or twisted, unbleacht or dyed.

677.42 Wild silk industry: pongee, corah, tussah (tussor)

.423 Raw materials
Oak silk worms: Chinese (pernyi), Indian (mylitta), Japanese (yamamai)
C D form: 677.4203

.44 Silk waste or spun silk industry
Bourrette, schappe etc.

.442 Processes
Preparing schappe by macerating or steeping. Preparation by heating or boiling
C D form: 677.4402

.443 Raw materials
Frisons from Turkey, clods from Persia, curleys from China, noshito and kibizzo from Japan, double and spoild cocoons
C D form: 677.4403

.448 Silk waste Bourrette Silk waste fabrics
C D form: 677.4408

.45 Industry of silks from insects without cocoons
Silk spiders

.46 Artificial silk industry
Fibers obtaind by dissolving cellulose

.461 Nitrocellulose dissolvd in ether or acetone
Collodion silk

.462 Cuprammonia industry
Givet silk

.463 Viscose industry
Cellulose dissolvd in carbon disulfid

.464 Acetate process

.5 **Industries of other fibers**
Mineral, metal and various other fibers. Special fabrics or network obtaind by braiding or similar operations, and general processes of corresponding industries. Basketry. Sparterie
For fabrics made by other special processes but from ordinary textil fibers, e. g. felt, tapestries, openwork and mesht fabrics, tulle, lace, nets, tricots etc. see 677.6.
For cable and rope making and fancy trimmings see 677.7

.51 Natural mineral fibers

.511 Asbestos, amianthus
Incombustible fabrics: asbestos sheets; trimming braids; insulators

.52 Artificial mineral fibers

.521 Glas filaments Woven glas

.522 Mineral wool, slag wool

.53 Metal yarns, fabrics and nets
Perforated sheetiron and other sheet-metal or material in general concerning each metal or alloy see corresponding division under 669

.531 Fabrics from gold, silver or other precious metals

.532 Metal cloths Strainers
Cloths from copper, bras, iron or steel

.533 Wire gratings: bras, iron, galvanized iron

1 **Gratings made by hand**

2 " " " **machine: twisted once**

3 " " " " " **3 times**

4 " " " **other sistems**

.534 Metal network obtaind by stamping or cutting

1 **Perforated sheetiron**

2 **Other sheet-metals**

677.54 Vegetable fibers not spun
Braiding processes
.541 Straw and similar materials
1 **Articles of straw joined by binding**
Thacht roofs and shelters. Mats. Roller curtains
2 **Articles woven from straw**
Matting
3 **Articles of braided straw**
.542 Sparterie
Sparto (alfa), pandanus, lindenbast
.543 Osier industry Basketry
.544 Rushes industry
1 **Bands and straps made of rushes**
2 **Fabrics from rushes**
Matting, doormats
3 **Braiding from rushes**
Chair caning, etc.
.545 Bamboo and rattan
Matting
.546 Fibers obtained as chips or shavings
1 **Rice straw (so cald) or willow chips**
2 **Wood wool or pine chips**
.55 Elastic fibers and fabrics
.551 India-rubber weaving
For rubber industry in general see 678
.56 Various animal fibers
Other than those in 677.3–.4
.561 Fabrics from hair or bristles
Haircloth
.562 Fethers Fether fabrics
.563 Intestinal fibers
See also 677.74 Catgut
.564 Whale bone
.6 Special fabrics
Fabrics uzing various fibers and manufactured by special processes
.61 Mixtures
.611 Plain weav
.616 Figured
1 **Damaskt**
2 **Brocaded Flowerd**
21 Figured taffeta Pompadour taffeta Brocaded or embroiderd damask
See also 677.4164
22 Upholstery fabrics
Lampas, drugget, brocatel
23 Brocaded with gold or silver thred Cloth of gold
True brocade Appliqué brocade
.617 Reversible and double warp fabrics Plain and pile fabrics
1 **Rep Gros d'Écosse**
2 **Plush Uncut plush**
3 **Velvet Uncut and figured velvets**

677.62 Fabrics woven, fulled, felted or napt
Wool cloths, flannels, swanskins, blankets etc.
.622 Wool fabrics, fulled and felted
.623 Napt cloths
.624 Flannels
1 **Flannel proper Plain flannel**
2 **Plaid or checkt**
3 **With cotton warp**
.625 Swanskins
1 **Wool, single or double faced**
2 **Cotton, reversible**
.626 Blankets Lap robes Counterpanes
1 **Wool blankets**
Bleacht blankets, traveling rugs, horse blankets, army blankets
2 **Part wool**
3 **Cotton**
4 **Reversible swanskin**
5 " **quilted counterpanes**
6 **Colord damask coverlets**
.63 Felts proper
Felting without weaving
.632 Wool felt in pieces
Felt cloths. Felt carpets
.633 Wool felts for hats
.634 Hair " " "
.635 Hatmaking
For hatmaking in general see 687 4
.64 Tapestry and carpet industry
.641 Needle or stitch tapestry
.642 High or low warp tapestry
.643 Woven carpet
Carpet in pieces. For rugs and other purposes. See also 677.632 Felt carpets
1 **Pile carpet with double warp and ret stitches**
High wool pile, high and low warp, with common Gobelin stitch
2 **Short-nap Aubusson carpet, low warp**
3 **Moquet**
4 **Chenille carpet**
5 **Venetian and mottled carpet**
6 **Reversible Ingrain**
Scotch Kidderminster
7 **Oriental carpet**
Smyrna, Kelim (reversible), Algeria
.65 Openwork fabrics
.651 In plain weav
See also under Flax 677.116413
.652 Gauze
Gauze weav; half-cros gauze, standard gauze
1 **Cotton and silk gauze**
2 **Striped gauze Grenadine, etc.**
3 Gauze with opaque designs

677.653 Lace industry
Point lace; embroidery
1 **Elements of lace**
11 Ground: net or tulle
12 Ornaments Flowers
13 Various stitches
2 **Bobbin lace**
3 **Needle "**
4 **Machine "**
.654 Tulle Tulle pattern
1 **Bobbin tulle or tissue with hexagonal machine made net**
2 **Spotted net**
3 **Tulle with lace on plain net**
4 **Brussels tulle**
5 **Grenadine "**
6 **Illusion "**
.655 Guipure lace
For upholstery lace see 677.761 Trimmings
.66 Mesht goods, with chain stitch and knotted stitch
.661 Knitting Knitgoods industry
By hand or by machine. Clas here works on knitting as a business. For home knitting see 646.26
.662 Crochet work Crochet lace
Clas here works on crocheting as a business. For home crocheting see 646.27
.663 Tatting
Clas here works on tatting as a business. For home tatting see 646.26
.664 Nets
Mesht tissues, with knots. Game bags, fishnets
.68 Waxt or glazed fabrics
.682 Gumd gauze (wrongly cald oilcloth)
.683 Oilcloth proper
Common oilcloth; colord oilcloth for table covers
.684 Moleskin (imitating lether)
.685 Glazed felt
.686 Linoleum
.687 Kamptulicon
.7 **Cordage Rope making Trimmings Passementerie**
.71 Cordage
.711 Hemp
Manufacture of rope yarn, cables, twine
.712 Flax
.713 Silk
For silk cords for music instruments see 677.7412
.714 Wool
.715 Jute, phormium, sparto and similar materials
.716 Hibiscus bark and similar fibers
False jute, etc.
.717 Aloe and similar fibers
Agave, pineapple, yucca etc.
.718 Banana and similar fibers
Banana, palm and pandanus families

677.72 Metal cords and cables Dynamic cables
.721 Iron or steel
.722 Bras
.73 Conducting wires and cables
Telegraf wires, submarine cables
.731 Coverd wires and cables
.732 Insulated " " "
.733 Insulated and led-coated wires and cables
.734 Armord wires and cables
.735 Aerial and interior "
.736 Subterranean cables
.737 Submarine "
.74 Catgut and similar cords
.741 For music instruments
1 **Catgut**
2 **Silk**
For silk cord in general see 677.713
3 **Cords spun from or coverd with silverd wire**
.742 For knife grinders
.743 " racquets
.744 " whips
.745 " hats; for saddle bows
.746 " clocks
.75 Cords Braids Lacings Ribbons
.751 Cords proper
Hemp cords coverd with cotton or silk
.752 Braids
Flax, silk, silver, gold. Round, flat or double braids
.753 Lacings
Cotton or silk
.754 Ribbons
Silk, cotton, wool, velvet. Solid colors or figured
.76 Trimmings
Galloons and other ornaments for clothing, furniture etc.
.761 For furniture
.762 " carriages and livery
.763 " military uniforms
.764 " men's clothing
.765 " women's "
.766 Of gold or silver
.767 Fancy Novel
Beads etc.
.8 **Industries auxiliary to textil industries**
.81 Cards for Jacquard looms
678 Rubber and similar products and articles made of them
679 Celluloid and other

680 Mechanic trades Amateur manuals

For bilding trades see 690

681 Fine mechanism Instruments of precision Watch and clock making

Catalogs of miscellaneous instruments. Clas special instruments with their subjects

.1 **Apparatus with wheels or motor mekanisms**

.11 Horology Watch and clock making

See also in astronomy 529.78

.111 Clock sistems

1 **Ancient clocks**

Sundials, water clocks, clepsydras

.112 Constitutent parts of clocks

Making and repairing. Tools

1 **Movements: with weights, with springs Barrels**

2 **Wheels Gears**

Hour wheels, minute wheels

3 **Striking devices: bels, carillons**

4 **Escapements Balance wheels Springs Pendulums Regulating devices**

5 **Bearings: friction and lubrication**

7 **Adjusting Regulating**

8 **Repairing**

9 **Watchmakers implements**

.113 Clocks

See also 681.115 Pneumatic clocks, 681.116 Electric clocks

1 **House clocks**

For clocks considerd as artistic furniture see 749

2 **Astronomic clocks**

3 **Public " Tower clocks**

Strassburg clock

4 **Musical clocks**

5 **Drawing room clocks**

6 **Travel clocks**

7 **Alarm "**

.114 Watches Chronometers

Fo watche considerd from viewpoint of artistic watchcases see 739

1 **Watches for ordinary use**

2 **" with second hands**

3 **Repeater watches**

4 **Chronometers for ordinary use**

5 **Marine chronometers**

.115 Pneumatic clocks

1 **Motor clocks Canalization**

2 **Receiving clocks: public or private**

.116 Electric clocks Standard clock sistems

1 **Distributing regulators**

2 **Sistem for transmitting time at a distance**

3 **Sistems of direct transmission**

Minute receivers

681.117 Curiosities of clockmaking

1 **Mysterious clocks**

2 **" watches**

3 **Automaton clocks**

.118 Time reckoners

Chronografs and other apparatus for mesuring time

1 **Reckoners by seconds or fractions of seconds**

Stop watches

2 **Tower reckoners**

3 **Metronomes**

4 **Chronografic reckoners Mesurers of velocity**

5 **Reckoners of interruption**

6 **Alarm reckoners**

7 **Time clocks**

.119 Other horology apparatus

1 **Portable sundials**

2 **Hour glasses**

.12 Reckoners of consumption

.121 Water meters

.122 Gas "

.124 Vehicle reckoners Taximeters

.13 Automatic distributers or producers of various effects

.131 Distributers of objects prepared in advance

.132 Distributers of objects transformd by the apparatus itself

Apparatus for printing metal labels

.133 Apparatus for producing images and fotografs Projection lanterns

.134 Moving picture apparatus

.135 Sound producers Automatic fonografs

See also 681.8432 Fonografs: construction

.14 Calculating, counting and registering machines

Tho not all wheel machines, there may under this hed be brought together calculating machines of all types. Manufacture of these machines may be clast here or under numbers indicating their use

.141 Arithmetic machines Adding machines Arithmometers

See also in offis economy 651.2641

.142 Machines for solving equations

See also Equations in Relativ index

.143 Logarithmic instruments

Calculativ rulers and circles. See also Mathematics 510.8

.144 Abacus and apparatus for grafic tables

See also Arithmetic 511.2 and Offis economy 651.2645

.145 Machines for money counting Automatic safes

681.15 Toys and apparatus with automatic mekanical movements
See also 681.82 Automatic musical instruments
.151 Automatons imitating human actions
.152 Automatic animals
.153 Complex toys imitating actions of persons and animals
.154 Automatic machines and apparatus moving on the ground
Carriages, wagons
.155 Automatic animals and apparatus moving in water
Fish; boats
.156 Automatic animals and apparatus moving in the air
Flying birds; balloons

.2 Scientific instruments of wood or metal for mesurements and observations
Manufacture of the various instruments uzed in pure and applied science, to observ, ascertain, mesure or register, may be clast with the use of those instruments in 500–600 or (except those provided for under 681.3–.7) may be brought together here, the special kind of instrument being indicated by clas number for its use, following a colon; e. g. 681.2:534 Manufacture of acoustic apparatus, 681.2:617 Manufacture of surgical instruments, 681.2:631.3 Manufacture of farm machinery

.3 Apparatus for glas blowing
Glasblowing or enameling with blowpipe or lamp. See also 666.1–.2
Special instruments may be clast under number for their use or may be brought together here, and distinguisht by affixing after a colon the number for use, as noted under 681.2

.4 Optical instruments Optician's trade
See also 522 Practical astronomy, 535.8 Applications of optics
As noted under 681.2–.3, manufacture of instruments may be clast under number for their use or may be brought together here and subdivided by colon followd by number for use, e. g. 681.4:522.2 Manufacture of telescopes
.41 Various kinds of optic instruments
.411 Spectacles Eye glasses
.412 Instruments for distance observation
Opera glasses; spy glasses
.413 Magnifying glasses
Reading glasses; microscopes
.414 Spectroscopes
.415 Photometers
.416 Polarimeters
.42 Optic glasses
Oculist's glasses; plate glas; mirrors; prisms; lenses
.43 Frames and metal parts
Optic screw
.44 Setting and adjusting

681.6 Machines for writing, shorthand, composing, printing, numbering, stamping, effacing
For description and use of these machines see the following numbers, under which the manufacture also may be clast if preferd: 652 Writing machines, typers; 653 Shorthand; 655.2–.3 Printing; 657.3 Calico printing; 760 Engraving; 775 Fotolithografy
.61 Writing, shorthand and composing machines
.611 General questions
1 **Universal keyboard Ideal keyboard Manipulators**
2 **Mekanical transmission**
Comprest air transmission; electric transmission
3 **Inking by ribbon; by pad**
.612 Ordinary typewriters
With hidden writing; with visible writing
1 **Machines with keyboards and separate levers: hidden writing**
11 With complete keyboard and single letter on a key
12 " combined " " 2 letters " " "
13 " " " " 3 " " " "
2 **Machines with keyboards and separate levers: visible writing**
Subdivided like 681.6121
3 **Machines with keyboards and type wheels, segments or barrels**
4 **Hand operated machines**
41 With type on cylinders
42 " " " disks
43 " " " rule
44 " " " frame
5 **Other kinds of writing machines with mekanical movement**
6 **Machines with transmission by comprest air**
7 " " " " electricity
8 **Accessories of ordinary writing machines**
Tables, etc.
.613 Machines for special kinds of writing
1 **For embost caracters**
Writing machines for blind. See also 655.38 Printing for blind
2 **For conventional caracters**
Perforating machines
3 **For shorthand**
4 " **distance writing**
Telescriptor
.614 Writing and composing machines for printing

681.62 Copying and printing presses
.621 Hand copying and printing presses
1 **Copying presses**
2 **Printing "**
.622 Hand typografic presses
Old wooden presses; iron presses
.623 Typografic presses with pedals
.624 Mekanical typografic presses
1 **For printing in black**
2 **" " " colors**
.625 Special presses for various kinds of printing
1 **For copper plate printing**
2 **" lithografic and zincografic printing**
3 **" fotografic printing**
4 **" chromografic "**
5 **" printing wall paper**
6 **" " fabrics**
See also 667.3 Calico printing
.626 Machines for stamping, numbering, dating, effacing
1 **For stamping and labeling**
Moist stamps; dry stamps. Composing sticks. Inkpads. Inkpad boxes
2 **Numbering machines and stamps**
Automatic numberers. Frame for numbering
3 **Dating machines**
Date stamps: movable, perpetual
4 **Effacing and perforating machines**
.63 Apparatus for telecommunication
Machines and apparatus for transmitting at a distance signals, writing or words
See also in engineering 621.38 Electric communication; in communication 654 Telegraf, cables, signals
.631 For short distance transmission of various acoustic or mekanical signals
See also in engineering 621.386 Telefone instruments, in offis economy 651.262 Oral communication
1 **By comprest air transmission**
See also in engineering 621.53 Comprest air transmission
2 **By comprest water transmission**
.632 For fotografic transmission
.7 Machines for manual labor and involving instruments of precision
Special machines may be clast under number for their use or may be brought together here and distinguisht by affixing after a colon the number for their use, as noted under 681.2; e. g. 681.7: 677.753 Manufacture of lace looms

681.8 Music instruments
Manufacture of music instruments is preferably clast in 781.91 Music instruments in general, 786–789 special instruments, but may be kept here, classing under 681.81 the ordinary musical instruments, and under 681.82–.84 some of the less important and the accessory instruments
.81 Ordinary music instruments
See note under 681.8. If manufacture of ordinary instruments is clast here, this number may be subdivided like 780, e. g. 681.8171 Manufacture of violin
.82 Automatic and independent instruments
.821 Street organ
.822 Music boxes
.823 Mekanical pianos and organs
.824 Orchestrions
.825 Song-birds and instruments imitating song and speech
.83 Semi-automatic adapted to ordinary instruments
.831 To keyboard instruments
Melotropes, pianistas, eolians, etc.
.832 To stringd instruments
.833 " wind "
.834 " percussion "
.84 Instruments registering and reproducing musical compositions and voices
.841 Merely registering movements of piano keys
Melegrafs
.842 Merely registering sounds
.843 Registering and reproducing sounds
1 **Talking machines**
2 **Phonografs Gramofones**
See also 681.135 Automatic phonografs
21 Cylinder phonografs
22 Disk "

682 Blacksmithing
.1 Horseshoeing
See also Zootechny, 636.0834 Shoeing
683 Lock and gun making
684 Carriage and cabinet making
Furniture. See also 749 Artistic furniture; 694.7 Fine joinery, interior finish. Highway vehicles for separate tractors, either animal or motor. For motor vehicles see 629.2

685 Saddlery Belt-, shoe-, glove-making, etc. Travel equipment

Saddles and harnesses, shoes, and travel and camp equipment. See also 675 lether industry

.1 Saddlery Harness making
.2 Beltmaking
.3 Shoemaking Wooden-shoe trade
.31 Shoemaking properly so-cald
.311 Ancient shoes Theater shoes
.312 Ordinary modern shoes of lether and fabric
.314 Various special shoes
Slippers, gaiters etc.
.32 Wooden-shoe making
.36 Footwear and special apparatus for moving on ice or snow
.361 Ordinary skates
.362 Roller skates
.363 Snow shoes Skis
.37 Special apparatus for moving on the ground
Stilts
.38 Walking apparatus for infirm and wounded
See also 617.92 Orthopedic appliances
.381 Crutches
.382 Wooden legs
.4 Gloves Mittens
.41 Gloves of common lethers
.42 Long lether gloves Evening gloves Ladies fancy gloves, etc.
.43 Furred and lined lether gloves
.431 Fur gloves
.432 " mittens
.433 Stuft gloves Boxing gloves
.434 Armd gloves Gantlets
.44 Gloves of woven textils, cut and sewed Knit gloves of silk or wool
.46 Gloves entirely woven Knit gloves of cotton, flax, wool, silk etc. Filet silk gloves
.47 Mittens Mitts
.48 Glove fastenings

685.5 Travel and camp equipment
.51 Travel articles of lether and fabrics
.511 Trunks
Of wood and fabric, of lether, of wicker and lether
.512 Valises Portmanteaus
.513 Overnight bags
.514 Saddle bags Game bags Cartridge boxes
.516 Canteens
.517 Hampers for excursions and picnics
.53 Camping articles
.531 Tents and knock-down huts
.532 Temporary shelters
.533 Folding beds
.534 Hammocks Hanging seats
.535 Portable seats Folding seats
.536 Other tent furnishings
Tables; stands
.537 Seats under covers
.6 Articles for public or society games

686 Bookbinding

687 Clothing industries

See also 685.2-.4

.1 Redymade clothing Sewing Tailoring
Outerwear
.11 Men's clothing
.12 Women's "
.13 Children's "
.15 Uniforms and special garments
Civil; military; ceremonial; religious
.2 Underwear
.3 Hosiery
See also manufactures 677.661 Knitgoods
.4 Hats

688

689 Other trades

690 Bilding

For Architectural construction, see 721

.1 Theories of construction .2 Compends, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies, exhibitions .7 Education, study, training, apprentisship, tools and their use (for use of special tools see special trade) .8 Collections, patents, inventions .9 History of bilding construction

691 Materials Preservativ processes

Waterproofing See also 620.1 Strength of materials

.1 Wood Creosoting, etc.
.2 Natural stone Paraffining, etc.
.3 Artificial stone Concrete
.4 Bricks Tiles Other keramic products
.5 Lime Cement Plaster
.6 Glas
.7 Iron Steel Antirust processes
.8 Other metals
.9 Other materials

692 Plans Specifications, etc.

.1 General drawings
.2 Detail drawings
.3 Specifications
.4 Contracts Agreements Bids Advertisements
.5 Estimates Quantities Costs
.6 Superintendence
.7 Supervision of accounts
.8 Professional servises Fees Commissions
.9 Bilding laws Liabilities of architects, owners, and contractors

693 Masonry Plastering Fireproofing

.1 Stone construction
.11 Bonds of stone work
.12 Cutting and dressing of stone
See 515.8 Stereotomy; 736 Stone carving
.2 Brick construction
.21 Bonds of brick work
.22 Adobe or sundried brick, etc.
.3 Terra cotta construction Tile
.4 Hollow tile and porous terra cotta construction
.5 Concrete and beton construction
.6 Plastering
.61 External plastering and stucco
.62 Internal plastering
.63 Ornamental plaster work
.64 Scagliola
.65 Wooden lath
.66 Metal lath (Wire, etc.)
.67 Mineral wool linings, etc.
.7
.8 Fireproofing
.9

694 Carpentry: joinery, stairbilding

.1 Wood construction; general
.2 Joints of woodwork Framing
.3 Strengthend beams
.4 Posts Colums See also 721.31
.5 Paneld and lattist construction
.6 Joinery, general For Finishing, varnish, polish, etc. see 698.3
.7 Ornamental joinery Cabinet work
For cabinetmaking see 684
.8 Stairbilding See also 515.83 Stereotomy
.9 Other branches See also 721.87–.89

695 Roofing: slating, tiling

For roof construction see 721.5

.1 Wood: shingle
.2 Slate
.3 Tile
.4 Metal: tin, copper, led, zinc
.5 Iron
.6 Asfalt Tar Concrete (Melted)
.7 Felt Asbestos Paper (In rolls)
.8 Textil: duck, canvas
.9 Thatch and other coverings

696 Plumbing Gas and steam fitting, etc.
- .1 **Plumbing** For principles of sanitation see 628
- .2 **Gasfitting**
- .3 **Steamfitting**
- .4 **Rivets and riveted joints**
- .5 **Screws and screw joints**
- .6 **Rust or calkt joints**
- .7 **Anchors Band irons**
- .8 **Other branches**
- .9 **Plumbing laws** See also 614 Public helth

697 Heating and ventilation
See also sanitary engineering, 628.8; home economics, 644. For lighting see 628.9
- .1 **Fireplaces**
- .2 **Stoves**
- .3 **Furnaces**
- .4 **Hot water, high and low pressure**
- .5 **Steam, high and low pressure**
  For boilers, see 621.184; for power plants, see 621.19
- .6 **Gas: coal gas, water gas, natural gas**
- .7 **Electric and other methods**
- .8 **Smoke flues and chimneys**
- .9 **Ventilation: air ducts, condits, fans**

698 Painting Glazing Paperhanging Tapestry
- .1 **Painting Oil**
- .2 Distemper and fresco
- .3 Varnishing Polishing
- .4 Other modes of protection
- .5 **Glazing** For Staind glass see 748
- .6 **Paperhanging**
- .7 **Textil hangings: tapestry**
  For tapestry design, see 745
- .8 **Relief work: lincrusta, stampt lether, etc.**
- .9 **Other branches**

699 Carbilding
Railway and tramway cars, passenger and freight, with or without motors. For highway cars see 629.2

Fine Arts

700 Fine arts

701 Philosofy: theories, utility, esthetics
702 Compends, outlines
703 Dictionaries, cyclopedias
704 Essays, lectures, addresses
705 Periodicals, magazines, reviews
706 Societies: transactions, reports, etc.
707 Education: study and teaching of art
708 Art galleries and museums
- .1 **American: Corcoran, Metropolitan, Boston**
- .2 **English: National, Hampton Court, Windsor**
- .3 **German: Dresden, Munich, Berlin, Vienna**
- .4 **French: Louvre, Luxembourg**
- .5 **Italian: Vatican, Sistine, Pitti, Medici, Borbonico**
- .6 **Spanish: Madrid, Seville**
- .7 **Russian: St Petersburg, Hermitage**
- .8 **Scandinavian: Copenhagen**
- .9 **Other countries**

709 History of art in general Divided like 930–999

710 Landscape gardening
Town and city planning For special cities see 914—999

711 Public parks
712 Private grounds, lawns
713 Walks Drives
714 Water: fountains, lakes
715 Trees Hedges Shrubs
See also 634.9 Forestry; 582 Botany
716 Plants Flowers
.1 Plants .2 Flowers .3 Conservatories .4 Window gardens .5 Ferneries
717 Arbors Seats Outlooks
718 Cemeteries Monuments Mausoleums
See also 393.1 Earth burial; 614.61 Public helth
719 Other

720 Architecture

.1 Theories, esthetics, architectonics .2 Compends, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies .7 Education study, training, schools of architecture .8 Polygrafy, collections .9 General history of architecture, divided geograficly like 940–999

721 Architectural construction

.1 Foundations See also bridge engineering, 624.1 Foundations

.11 Foundation bed Nature of soil Load on foundation
Trial borings. Rock, sand, gravel, peat, quicksand

.12 Excavation: timbering, shoring

.13 Material for bilding foundations
Divided like 620.1

.132 Wood

.133 Stone, cement, concrete

2 Stone, dimension or rubble

5 Cement

6 Concrete

.134 Brick

.14 Pile foundations: general Material

.141 Sand piles

.142 Wood or timber piles

.143 Concrete piles

.147 Iron piles

.15 Pile foundations: method of sinking

.151 Piledriver

.152 Screw pile Boring anchor

.153 Disk pile

.154 Hydraulic pile

.155 Pneumatic pile

.16 Platform and other special foundations

.162 Timber platforms or gratings: plank foundations

.163 Concrete platforms

.164 Iron and concrete: reinforced concrete platforms

.165 Masonry platforms

.166 Concrete legs or stilts

.167 Cantilever foundations

.17 Subaqueous foundations

.171 Cofferdams

.172 Open crib or caisson Cylinder foundations

.173 Pneumatic caisson

.174 Freezing

.175 Pneumatic forcing

.176 Sunken wells: dredging thru wells

.177 Sunken tubes

721.2 Walls

.21 Wood and halftimberd

.22 Stone

.23 Artificial stone, concrete, pisé, etc.

.24 Brick

.25 Bases Water tables Belt courses

.26 Arcades Colonnades

.27 Cornises

.28 Gables and pediments See also 721.58 Gable roofs

.29 Other walls

.3 Piers Colums

.31 Wood See also Carpentry 694.4

.32 Stone

.33 Concrete, artificial stone

.34 Brick, terra cotta

.35 Iron, steel

.36 Fireproof Protected

.4 Archt constructions
See 624.6 Archt bridges; and 729.33 and 729.37 Elementary forms

.41 Arches, circular

.42 Arches, other forms

.43 Vaults, cylindric

.44 Vaults, groind

.45 Vaults, other forms

.46 Domes, circular

.47 Domes, other forms

.5 Roofs See also 695 Roof coverings; 624.9 Engineering, roofs; 729.35 Roof design

.51 Wood

.52 Masonry

.53 Glas

.54 Metallic

.55 Windows Openings in roofs

.56 Roof decoration: cresting, repoussé work, colord tiles, etc.
See also 695.3

.57 Spires and domes

.58 Gables See also 721.28 Gable walls

.59 Other forms of roofs

.6 Floors and flooring

.61 Wood Construction and coverings

.62 Stone " "

.63 Brick and hollow tile " "

.64 Metallic Compound " "

.65 Composit " "

.66 Parquetry . Coverings only

.67 Mosaics " "

.68 Tiles See 695.3 Roofing tile

.69 Other coverings

721.7 **Ceilings**
For vaulted ceilings, see 721.4 and 729.34
.71 Wood
.72 Stone
73 Brick or tiles with iron
.74 Metallic
.75 Concrete Plaster
.76
.77
.78
.79
.8 **Doors Gates Grilles Windows**
.81 Doors, wooden
.82 Doors, metallic
.83 Doors, sash, lattis, screen, etc.
.84 Windows, external
.85 Windows, internal
.86 Inclosures of doors and windows
Architraves Pilasters Jams Pediments Lintels, etc.
.87 Shutters Blinds Screens Grilles
.88 Fastenings Locks
.89 Other details
.9 **Iron and composit structures**
For strength of materials, see Engineering, 620.11
.91 Cast iron
.92 Wrought iron
.93 Steel
.94 Composit
.95 Iron and wood
.96 Iron and stone
.97 Iron and brick, tile, terra cotta Reinforced concrete
.98 Iron and glas
.99 Wood and glas

722 Ancient and Oriental architecture (Pagan)

See also 571.8 Prehistoric dwellings
.1 **Chinese Japanese**
.2 **Egyptian**
.3 **Phenician Tyrian Jewish Carthaginian Cypriote**
.4 **Indian (Asiatic)**
Hindu, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese Siamese, Cambodian
.5 **Chaldean Assyrian Babylonian Ancient Persian Sassanian**
.6 **Pelasgian Etruscan**
.7 **Roman** See 729.32 for Roman orders
.8 **Grecian** See 729.32 for Greek orders
.9 **Other: Aztec, Peruvian, Maya, Yucatan, etc.**

723 Medieval Christian Mohammedan

.1 **Early Christian**
.2 **Byzantine Armenian Russian**
.3 **Mohammedan: Saracenic, Moorish, Persian, Turkish, Indian** For Ancient Indian see 722.4
.4 **Romanesque**
.41 Scotch Irish
.42 English Saxon Norman
.43 German Austrian
.44 French Provençal Norman Angevin
.45 Italian Sicilian Norman
.46 Spanish Portuguese
.47
.48 Danish Swedish Norwegian
.49 Other countries
.5 **Gothic or pointed** Divided like 723.4

724 Modern

All the subsections of 724 are subdivided geograficly like 940–999
.1 **Renaissance**
.19 Baroque Rococo
.2 **Grecian revival**
.3 **Gothic revival**
.4 **Victorian Gothic Tudor Elizabethan**
.5 **Queen Anne**
.59 Georgian
.6 **Néo-Grec**
.7 **Swiss Timber**
.8 **Romanesque revival**
.9 **Other styles**

725 Public bildings

.1 **Administrativ Governmental**
.11 Capitols Houses of parliament
.12 Ministries of war, state, etc.
13 City and town halls Bureaus Public offises
.14 Custom houses Bonded warehouses Excise offises
.15 Court houses Record offises
.16 Post offises, general and special
.17 Official residences Palaces of rulers
.18 Barracks Armories Police stations
See also 623.61 Military bildings
.19 Engin houses Fire alarm stations

725.2 Business and commercial
.21 Stores, wholesale and retail
.22 Mixt store, offis, and apartment bildings
.23 Offis bildings: telegraf, insurance
.24 Banks: safe deposit, savings
.25 Exchanges Boards of trade
.26 Markets
.27 Cattle markets Stock yards
.28 Abattoirs
.29 Other business bildings
.3 Transportation and storage
.31 Railway passenger stations
.311 Small (country) "
.312 Large (city) "
.313 Union stations
.314 Stations on 2 levels
.315
.316
.317 Street-car stations
.318 Elevated railway stations
.319 Underground railway stations
.32 Railway freight houses
.33 Railway shops, roundhouses, car houses, tanks, stores
.34 Dock bildings Wharf boats and houses
.35 Warehouses Cold storage Safe deposit storage
.36 Elevators, grain
.37
.38 Garages Filling stations Livery stables
For private stables and garages see 728.94
.39 Other
.4 Factories
.41 Textil factories or mills: wool, cotton, silk
.42 Breweries Malteries Distilleries
.43 Foundries Machine shops Iron and steel works
.44 Woodworking mills Furniture factories
.45 Carriage and car factories
.46 Paper mills
.47 Mills for flour, meal, feed, etc.
.48 Pottery, glas, terracotta, brick works
.49 Other factories

725.5 Hospitals and asylums See also 725.6 Reformatories
.51 Sick and wounded Eye and ear Incurables Lying-in
.52 Insane
.53 Idiotic Feebleminded
.54 Blind Def and dum
.55 Paupers Almshouses
.56 Aged
.57 Children Orphans
.58 Foundling
.59 Soldiers homes
.6 Prisons and reformatories
.61 State prisons Penitentiaries
.62 Jails Cell houses
.63 Reformatories for adults Houses of correction
.64 Reform schools
.65 Washingtonian homes Inebriate asylums
.66
.7 Refreshment Baths Parks
.71 Cafés Restaurants
.72 Saloons
.73 Baths: warm, medicated, turkish, russian
.74 Swimming baths
.75 Bildings for watering places, spas, etc.
.76 Bildings for parks
.8 Recreation
.81 Music halls
.82 Theaters Opera houses
Grand stands, stadiums
.83 Halls for lectures, readings, etc.
.84 Bowling alleys Billiard saloons
.85 Gymnasiums Turn halls
.86 Skating rinks Bicycle rinks
.87 Boat houses
.88 Riding halls and schools
.89 Shooting galleries
.9 Other public bildings
.91 Exhibition halls
.92 Temporary halls Tabernacles Wigwams
.93 Workingmen's clubs and institutes
.94

726 Ecclesiastic and religious

.1 **Temples**
.2 **Mosques**
.3 **Synagogs**
.4 **Chapels** **Sunday school bildings**
.5 **Churches**
.6 **Cathedrals**
.7 **Monasteries** **Convents** **Abbeys**
.8 **Mortuary: cemetery chapels, receiving vaults, tombs**
.9 **Other: Y. M. C. A. etc.**

727 Educational and scientific

.1 **Schools**
Study and recitation rooms. Not including dormitory or boarding
.2 **Academies** **Seminaries** **Boarding schools**
.3 **Colleges** **Universities**
.4 **Professional and technical schools: law, theology, etc.**
.5 **Laboratories: physical, chemic** See 542.1 **biologic, etc.**
Zoologic and botanic gardens See also 590 7 and 580.7
.6 **Museums** **Herbariums** See 580.7
.7 **Art galleries** **Studios**
.8 **Libraries** See 022 Library bildings
.9 **Other: learned societies, etc.**

728 Residences

.1 **Tenement houses**
.11 City homes of poor
.12 Country "
.13 Cités ouvrières
.2 **Apartment houses** **Flats** **Family hotels**
.3 **City houses** **Mansions** **Palaces**
.31 Between party walls Stone
.32 " " Brick
.33 " " Partly wood
.34 Semidetacht, including end houses in city blocks Stone
.35 " " " Brick
.36 " " " Partly wood
.37 Detacht Stone
.38 " Brick
.39 " Partly wood
.4 **Club houses** **Bildings for secret societies**
.5 **Hotels** **Inns**
.51 City hotels
.52 Summer resorts
.53 Country inns

728.6 **Village and country homes**
.61 Village dwellings; on small lots
.62 Stone
.63 Brick
.64 Concrete or stucco
.65 Part masonry, part wood
.66 All wood
.67 Farm houses
.68 Laborers cottages
.7 **Seaside and mountain cottages** **Chalets**
.8 **Country seats**
81 Castles
.82 Chateaux
.83 Manor houses
.84 Villas
.9 **Outbildings**
.91 Porters lodges
.92 Servants quarters
.93 Kitchens and laundries
.94 Stables Carriage houses Garages
See also 725.38 Public garages and livery stables
.95 Barns Granaries
.96 Dairies
.97 Ice houses
.98 Conservatories Greenhouses Graperies
.99 Other

729 Architectural design and decoration

For decorativ illumination see 745

.1 **The elevation**
.11 Composition
.12 Distribution
.13 Proportion
.14 Light and shade
.15 Perspectiv effect
16
.17
.18
.19
For projection of shadows and grafics of light and shadow see 515.63 and 515.7
.2 **The plan**
.21 Elements required
.22 Distribution
.23 Proportion

729.3 Elementary forms
For construction of these forms see 721
.31 Walls Moldings Cornises
.32 Piers, colums, pilasters, pedestals and the orders Colonnades
.33 Arches and arcades
.34 Vaults and domes
.35 Roofs Spires Dormers
.36 Towers
.37 Gables and pediments
.38 Doors and windows Bays Oriels
.39 Stairs and balustrades
See also 515.83 Stereotomy; 694.8 Stairbilding
.4 Painted decoration
See also 729.7 Mosaic
.41 Vegetable forms
.42 Animal forms
.43 Grotesque forms
.44 Conventional and geometric forms
.45 Painted moldings
.46 Painted friezes and panels
.47 Painted colums and pilasters
.48 Painted ceilings and vaults
.49 Painted walls
.5 Decoration in relief
For bas relief and figure carving see 730
.51 Vegetable forms
.52 Animal forms
.53 Grotesque forms
.54 Conventional and geometric forms
.55 Carvd moldings
.56 Carvd friezes and panels
.57 Carvd colums and pilasters
.58 Carvd ceilings and vaults
.59 Other carvd ornament
.6 Incrustation and veneering
.61 Of external walls (in brick, stone, or marble, tiles, etc.)
.62 Of interiors
.63 Intarsia and inlay
.64 Niellowork
.65 Enamel decoration
.66
.67
.68
.69

729.7 Mosaic
.71 Mosaic ceiling
.72 Mosaic walls
.73 Mosaic floors
.74 Other mosaic designs
.75
.76
.77
.78
.79
.8 Staind glass design
For technical processes see 666.1; for history see 748
.81 Geometric windows
.82 Medallion windows
.83 Canopy windows
.84 Figure windows
.85 Mosaic windows
.86 Other kinds of staind glass
.87
.88
.89
.9 Architectural accessories and fixt furniture
.91 Altars
.92 Pulpits Tribunes
.93 Dais Thrones
.94 Buffets
.95 Mantels Overmantels
.96 Screens Rood screen Reredos
.97
.98
.99

730 Sculpture
731 Materials and methods
732 Ancient
733 **Greek and Roman**
734 Medieval
735 Modern
736 Carving Seals Dies Gems Cameos
737 Numismatics Coins Medals
Artistic and historic side See also 332.4 Coins and coinage, as money
738 Pottery Porcelain
739 Bronzes Brasses Bricabrac

740 Drawing Decoration Design

Arts and crafts

741 Freehand Crayon Sketching from nature Caricatures Cartoons

Collections on any subject go with that subject with reference from 741

742 Perspectiv See also 515.6

743 Art anatomy Life school

744 Mathematic and scientific drawing See 515

Instruction for architectural and other mathematic drawings, with demonstrations (if any) subsidiary

Textbooks with mathematic demonstrations in scientific order ar better in 515

745 Ornamental design: woven fabrics, carpets, wall paper, etc.

746 Art needlework Fancy work

747 Interior decoration Distemper Fresco Polychrome

748 Staind and iridescent glass For leding, see 698.5

749 Artistic furniture Fireplaces Frames, etc.

750 Painting

751 Materials and methods

752 Color See also 535.6 Optics

753 Epic Mythic Idealistic See 759.3 German school

754 Genre See 759.4 French; and 759.9 Belgian

755 Religious, ecclesiastic See 759.5 Italian; and 759.6 Spanish

See also 246 Ecclesiology

756 Historical, battle scenes

757 Portrait

758 Landscape and marine Stil life

Animals Flowers

759 Various schools of painting

- .1 **American**
- .2 **English**
- .3 **German**
- .4 **French**
- .5 **Italian**
- .6 **Spanish**
- .7 **Slavic**
- .8 **Scandinavian**
- .9 **Other schools**

760 Engraving

761 Wood

762 Copper and steel

763 Lithografy

764 Chromolithografy

765 Line and stipple

766 Mezzotint and aquatint

767 Etching Dry point

768 Bank note and machine

769 Collections of engravings

770 Fotografy

771 Materials Fotografic chemistry

772 Processes

Silver: daguerreotype, talbotype

Collodion: ambrotype, etc.

Dry plate

Color fotografy

773 **Gelatin and pigment: woodburytype**

Carbon: lambertype, autotype, etc.

774 **Gelatin and printers ink**

Albertype, heliotype, artotype, etc.

775 Fotolithografy, etc.

776 Fotozincografy, etc.

777 Fotoengraving and fotoelectrotyping

778 Special applications

Moving pictures. See also 522.63 Astronomy; 578 Microscopy

779 Collections of fotografs

780 Music

All heds include the music itself and everything about it: score, libretto, history, criticism, etc. but, if preferd, the music itself may be separated from the works about it by prefixing to its clas numbers an M, with MS for sheet music

.07 Relations of individuals and public bodies
See also 781.91065 Instrument makers

.071 Musicians Music as a profession
Writings relating to persons interested in music: their caracter, life, condition, duties, activities; professional ethics. Only general and theoretic works ar clast here. For biografy see 927.8 or 780.92

1 **Composers**

2 **Interpreters and performers**
Bards, minstrels, troubadours, trouvères, minnesingers, meistersingers

3 **Prodigies**

.072 Critics Writers on music Music criticism in general
Analisis
Analitic guides (program notes) of a general theoretic nature ar clast here; those relating to collected works of a special composer or to a single work ar clast with the corresponding works or work

.073 Amateurs The public

.074 Private patronage

.075 Official patronage Government subvention

4 **Registration of musicians, examination, standardization etc.**

.1 **Philosofy Esthetics Appreciation**

.13 Value Usefulness
Music in the home

.2 **Compends**

.3 **Dictionaries Cyclopedias**

.4 **Essays Addresses Lectures**
General collections. Essays etc. (either singly or collected) on a special topic ar clast with that topic

.5 **Periodicals**

.58 Year books Directories

.59 Kalendars Almanacs

.6 **Associations Societies Clubs**

.63 Congresses

.65 Commercial establishments Music stores
See also 780.85 Commercial circulars

.7 **Education Study and teaching**

.72 Music conservatories, schools, courses
Including methods of teaching music in general schools. For place of music in curriculums see 375.78
Geografic arrangement may, if wisht, be secured by uzing .729, divided like 930-999

.73 Concerts Concert programs
Geografic arrangement may, if wisht, be secured by uzing .739, divided like 930-999

.77 Instrumental and other methods distinctly suited to music
Dictation, ear training, pitch perception, eye training, music reading, sight reading
For general works; methods for a special instrument ar clast under number for that instrument

780.79 Music gatherings
Competitions. Festivals; festival programs
Divided like 930-999
For Vocal music see 784.5

.8 **Polygrafy Collections Quotations**

.81 Individual

.82 Collectiv

.821 Libraries or series

.822 Quotations from several authors

.85 Commercial circulars
For catalogs of music see 781.973; for instruments see 781.91; see also 780.65 Commercial establishments

.88 Varia

.881 Romances, poems, various literary fantasias on music and musicians

.883 Curiosa, anecdotes, critical and historical miscellany

.89 Volumes individually prepared
Made by binding together independent publications too miscellaneous to be clast more specificly; e. g. volumes of miscellaneous programs. Separate programs ar better clast with concert, festival, special production, etc.

.9 **History and other general local treatment**

.92 Music biografy
Preferably clast with other biografy

.93-.99 Music in special countries
Divided like 930-999

781 Theory and technic of music

.1 **Scientific theories**
Mathematics, physics, physiology, psychology of music. Colored audition. Acoustics. See also in physics 534 Sound

.2 **Elementary and general**

.21 General principles of music Music grammar

.22 Sound, from music viewpoint
Tonalities, cords, intervals, scales, pitch

.23 Nomenclature Terminology
For discussion; music dictionaries ar clast in 780.3

.24 Music notation
Music writing and stenografy. Notation in key of sol, fa, do, etc. Mesures, sistems of notation, neumes, tablature, music notation in cypher, notation for the blind. Reform proposals

.3 **Harmony Thorobass**
General bass, figured bass. Modulation

.4 **Counterpoint**
Canon. Fugue. Melody, melodic structure, melopoeia

.5 **Music form Kinds of music**

.508 Different kinds of instrumental music
08 and its subdivisions may be combined with different instruments; e. g.
786.2 Piano
786.20813 Minuets for piano
Selections from complete works, religious or theatric, ar clast with those works
For kinds of song see 784 Vocal music

781.508
1 **Movements of instrumental music**
11 Allegro Presto Vivace
12 Andantino Andante Lento Adagio Largo
13 Minuet Scherzo Allegretto Rondo
14 Finale
2 **Different instrumental compositions**
Each of following divisions is divided like 781.5081; e. g.
781.508223 Sonata minuets
786.208223 Sonata minuets for piano
21 Symphony as a music genus
22 Sonata Sonatina
23 Chamber music
3 **Forms of music**
31 Suite
32 Variation
33 Fantasia Arabesque Toccata Moment musical
34 Nocturne Meditation Songs without words
38 Adaptations Arrangements Potpourris
4 **Marches Pieces of martial step**
5 **Dances**
51 Old dances
Minuet, allemande, courant, pavan, etc.
52 Parlor dances Quadrils
521 Waltz
522 Polka
523 Mazurka
524 Polonaise
525 Quadril
526 Lancers quadril
527 Schottische
528 Galop
529 Other
53 Theater ballets
54 Juvenil dances
See also 796.13 Singing, dancing and marching games
57 National and caracter dances
See also Indoor entertainment 793.31
579 Special countries
Divided like 930–999
58 Artistic dances
See also Indoor entertainment 793.32
6 **Overtures Entr'actes Interludes**
.6 **Composition and instrumentation**
Composition of a special kind of music is clast with that kind
.61 Composition in general
.62 Rhythm and meter Relation of poetry to music
.63 Instrumentation and orchestration
.631 Instrumentation
.632 Orchestration
5 **Profession of orchestra leader Direction of orchestras**
7 **Lyric and instrumental execution**
Interpretation of vocal and instrumental music

781.633 Instruments and voices
Score reading and playing Memorizing Phrasing
.64 Adaptation Resolution Instrumental reduction
Arrangements Transposition
.65 Improvisation
.66 Accompaniment
.67 Embellishment
.7 **Theories and forms: racial, national, etc.**
For works treating of *theory and form* from viewpoint distinctly racial, national, etc
See also 780.9 History and other general local treatment
Divided .71 Primitiv and savage peoples, .72 Peoples not otherwize provided for (e. g. gipsies), .73–.79 like 930–999 but, if wisht, ancient music may be clast under .8 divided like 930
.8 **Ancient music: theories, modes and forms**
Divided like 930; see last note under 781.7
.9 **Various questions**
.91 Music instruments in general
Temperament and harmony. Manufacture, repair, verification
Whatever concerns a group of instruments or an individual instrument is clast under corresponding division of 786–789
.91065 Makers Manufacturers
74 Museums and collections
.94 Different kinds of music in general
.95 Music curiosities
Music among animals; bird songs. See also 598.2 Birds
.96 Music literature in general
For general works. Librettos etc. for individual composers or works or groups of works ar preferably clast under corresponding numbers
.961 Works of dramatic authors
Libretttos, scenarios, opera poems, etc.
.962 Theater pieces with wel-known airs
Vaudevils, etc.
.963 Librettos or ballet poems
.964 Librettos or oratorio and secular cantata poems
.965 Librettos on sacred subjects
.969 Manuscripts, autografs, etc. of musicians
Preferably clast with subject, or, if chiefly interesting as manuscripts, in 091
.97 Music bibliografies
Only catalogs of music itself ar clast here. Bibliografy of writings relating to music is clast in 016.78
.971 General bibliografy of musical works
.973 Catalogs Lists of definit sources
1 **Public libraries**
2 **Private libraries**
3 **Auction catalogs**
4 **Publishers and dealers**
5 **Works of special composers**
.98 Publication
.981 Engraving Typografy Printing
.982 Publishing
.983 Sale Commercial questions
See also 780.65 Commercial establishments; 780.35 Commercial circulars

782 Dramatic music Theater music

As an alternativ to use of following subdivisions, all operas etc. may be arranged in a single alfabet by name of composer, or all grand opera may be so arranged under 782.1, or, with this latter as the general treatment for grand opera, an exception may be made by uzing 782.2 for Wagner, with works under this number arranged according to Special author tables printed on last pages after Relativ index

Selections for either voice or instruments may be clast here with the original works or, if preferd, under 784.21 Song selections, or with the different instruments

.08 Polygrafy Collections

Including collections of analises of and stories from operas by various composers. Analises of or stories from several works of a single composer or a single work ar clast with the works or work

.1 Grand opera

.2 Epic Wagnerian

.3 Other German grand opera

.4 French grand opera

.5 Italian grand opera

.6 Comic and satiric

.7 Opera bouffe

.8 Operettas and secular cantatas Vaudevils

For sacred cantatas see 783.4

.84 Parodies

.9 Pantomimes, masks, etc.

783 Church music Sacred music

See 245 Hymnology, sacred poetry, for hymns alone; if with tunes they go in 783.9; 786.8 Organ; 246.7-.8 Evangelistic use and Eucharistic music; 264.2 Pubiic worship

Music for special religions or denominations may be indicated by 783 followd by colon and number for religion or denomination; e. g. 783:296 Music for Jewish worship, 783:282 Music for Catholic church

.1 Organ and orchestral Accompaniment

.2 Liturgic music

.21 Mass Communion servises

Annotated missals

.22 Common of the mass: kyrie, gloria in excelsis, credo, sanctus, benedictus, Agnus Dei

.23 Proper of the season: offertory, gradual, tract, sequence

.24 Choral servis: antiphonal, responsiv

Vespers, Complins

.25 Plain song

.26 Litanies

.27 Lenten and penitential: Good Friday, reproaches

.28 Liturgic dramas and mysteries

Festivals: Christmas, Easter etc.

.29 Solemnities Solemn masses Solemn marches

Requiem masses. Processionals. Recessionals

.3 Oratorio Passion music

.4 Anthem Motet Sacred cantata

Polyphonic school, Palestrina. 16th century

.5 Chant: Gregorian, Anglican

.6 Chorale Tune Carol

.65 Christmas carols and popular canticles

783.7 Evangelistic: mission, revival Sunday school

.8 Choir: men and boys Quartet Chorus

.9 Congregational singing Psalmody Hymnody

784 Vocal music

With or without accompaniment

Dramatic music is clast under 782 and sacred music under 783

Vocal music is divided by kinds and if under each kind further subdivision is needed it may be made (1) by number of parts, (2) by kind of voice, according to table below, e. g. 784.306231 Duet ballads for tenor voices

.061 Solos

1 Children

2 Women

21 Soprano

23 Mezzo soprano

26 Contralto

3 Men

31 Tenor

32 Baritone

33 Bass

.062 Duets

.063 Trios

.064 Quartets

.065 Quintets

.066 Sextets

.067 Septets

.068 Choruses

1 Children only

2 Women "

3 Men "

4 Mixed choruses (men, women and children)

5 Vocal parts with choruses

.1 Glee Madrigal Round Catch

.2 Aria Cavatina Recitativ

e. g. in oratorio, mass, opera. Preferably clast with works from which they ar taken

.21 Extracts from theatric music scores

.22 " " masses and sacred music

.23 " " oratorios

.25 Recitativs Declamations with music Melologs

.3 Vocal chamber music

Ballads, songs, melodies: romantic, idyllic, sentimental. Dance songs

.35 Canzonets

.4 Folk songs

Songs of the soil, cowboy songs, sea songs, chanteys, drinking songs

See also 783.65 Christmas carols and popular canticles, 784.71 National airs, songs and hymns

.49 By country Divide like 930–999

.5 Festival; e. g. sängerbund, eisteddfod Competitiv

784.6 Student songs Society songs Choruses Community singing

.62 Student songs School songs

.622 College songs
Including those of professional and technical schools

.623 Secondary schools

.624 Elementary schools
Including children's songs in general

.625 Kindergartens
Preferably clast with Kindergartens, in 372.215 Songs and games

.66 Societies
Masonic songs, etc. If *purpose* of society is emfasized rather than society itself clas under 784.68

.67 Corporations and trades

.672–.6799 Special trades
Divided like 620–699. For those not included in 620–699 uze 784.671 divided like main classification

.68 Topical songs
e. g. temperance, labor, baseball
Divided like main classification

.7 Other kinds of songs

.71 National airs, songs and hymns
Patriotic and political songs, martial songs

.719 By countries
Divided like 930–999

.75 Exotic songs

.752 Gipsy songs

.756 Negro " Negro minstrelsy Plantation songs

.8 Collected songs
.81–.85 may be subdivided like 784.061; e. g. 784.8131 Collection of tenor solos, 784.8231 Collection of tenor duets

.81 Solos

.82 Duets

.83 Trios

.84 Quartets

.85 Other part songs

.86 Choruses
Subdivided like 784.068

.87 Collections for male voices

.88 Collections for female voices

.89 Other special collections

.9 Art of singing
Technic and studies

.91 Generalities

.92 Physiology of voice and vocal organs
See also in physiology 612.78 Voice and speech

.93 Hygiene and vocal gymnastics
Voice culture, breathing, pronunciation
See also 808.5 Oratory

.94 Special systems and methods of singing
Tonic-sol-fa; tone formation, vowel exercises, solfeggios

.95 Application of singing to dramatic art

.96 Singing in concert Choruses

785 Instrumental ensemble
Symphonic and instrumental music. Grouping of instruments

.1 Orchestral music
For dramatic orchestral music, see 782; sacred, 783.1

.11 Symphony
Three or more movements; e. g. adagio, andante, allegro, allegretto, scherso, finale, etc. Tone poems

.12 Wind instruments and bras band

.121 Wind instruments

.122 Bras band

.13 Military music

.15 Music of the chase

.2 Music for orchestra, with voices
For dramatic orchestral music see 782

.21 Symphonic singing Secular oratorios

.22 Dramatic, illustrativ, descriptiv, program, imitativ
e. g. Mendelssohn's Midsummer night's dream

.3 Romantic, idyllic

.4

.5 Overture: e. g. Beethoven's Leonores

.6 Concerto: orchestral with solo instrument

.7 Chamber music
Music suitable for a private house or small hall; written for several instruments playd in concert, from duets to nonets, without trying to make a special instrument distinctly prominent
Chamber music is divided by parts as follows:

.72 Duet
.73 Trio
.74 Quartet
.75 Quintet
.76 Sextet
.77 Septet
.78 Octet
.79 Nonet

.8 Suite

.9 Arrangements, transcriptions, potpourris

786 Keyboard instruments

.1 Instruments playd with strings and keyboard

.2 Piano

.22 History

.221 Erly forms Forerunners
Harpsicord, clavicord, spinet, virginal

.23 Manufacture Tuning Temperament Repairing

.3 Instruction

.31 Hand

.32 Touch

.33 Scales

.34 Octaves Cords Arpeggios

.35 Pedal

786.4 **Piano music** **General collections**
For piano concerto, see 785.6
.41 Sonata Sonatina Rondo
.42 Fantasia Arabesque
.43 Nocturne Meditation Romantic Descriptiv
Songs without words
.44 March and march form Polonaise Polka Mazurka
.45 Dance form: national, classic, idealized
.46 Modern dance music Society, festiv
.47 Études Artistic For études for instruction, see 786.3
.48 Variations, transcriptions
.49 Arrangements
Four hands and more; e. g. orchestral music arranged for piano
.5 **Instruments with stops and air chambers**
.6 Organ
.62 History
.63 Bilding
.7 **Instruction**
.8 **Organ music** See also 783 Sacred music
.81 Sonata
.82 Fugue
.83 Preludes
.84 Interludes
.85 Postludes
.86 Offertories
.87 Voluntaries Improvisations
.88 Organ and piano
.89 Organ, piano, and orchestra
.9 **Parlor organ** **Cabinet organ** **Melodeon**

787 Stringd instruments

Including with each, history, manufacture, instruction, music, etc. Music for 2 instruments is put with the one most prominent in the composition. For keyboard stringd instruments see 786.1

Bowd

.1 **Violin**
.2 **Viola**
.3 **Violoncello**
.4 **Other**
.41 **Double bass** **Contra bass**

Plectral

.5 **Harp**
.6 **With strings and fingerboard** **Lute**
.61 **Guitar**
.65 **Mandolin**
.7 **Banjo**
.8 **Zither**
.9 Other
Ukelele

788 Wind instruments

Including with each, history, manufacture, instruction, music, etc.

Bras

.1 **Trumpet**
.2 **Trombone**
.3 **Cornet**
.4 **Horns and other bras wind instruments**
.41 French horn Hunting horn
.42 Saxhorn
.43 Saxophone
.44 Euphonium
.45 Ophicleide
.46 Key bugle
.47 Valv bugle
.48 Bass Tuba and contrabass tuba Serpent
.49 Other

Wood: flute group

.5 **Flute** **Waldflute** **Piccolo** **Fife** **Flageolet**

Wood: reed group

.6 **Clarinet** **Bass clarinet** **Bassethorn**
.7 **Oboe** **D'amore** **Da caccia** **Cor anglais**
.8 **Bassoon** **Double bassoon** **Bombardon**
.9 **Other reed wind instruments: bagpipe**

789 Percussion and mekanical instruments

Percussion

.1 **Drum**
.2 **Cymbals**
.3 **Triangle**
.4 **Tambourine** **Castanets** **Bones**
.5 **Bels: chimes, carillon**
See also 673 Bel manufacture
.6 **Other percussion instruments: xylofone**

Mekanical

.7 **Barrel organ** **Orchestrion**
.8 **Music box**
.9 **Other mekanical instruments**
Mekanical pianos, phonografs, etc. Musical glasses

790 Amusements

For ethics of amusements, see 175

791 Public entertainment

Including summer resorts, amusement parks and museums discust from standpoint of public entertainment

For wrestling and other athletic sports see 796.8. For customs see 394

.1 **Traveling shows**

Clowns, mountebanks, jugglers, tightrope walkers, rope dancers; conjuring, ventriloquism, ministrel shows

For private performances see 793. For circuses see 791.3

.2 **Concerts** **Floral games**

Music and poetry competitions

.3 **Circuses**

Hippodromes, horse shows, cirsensian games

.4 **Panoramas** **Magic lanterns** **Moving pictures**

Clas here general works on moving pictures as entertainment. For fotoplays see 792. For moving pictures as method of education see 371.335

.5 **Waxworks** **Miniature theaters** **Shadow pantomimes**

Marionets, puppets, Punch and Judy

.6 **Public fêtes**

Fairs, pageantry, historic pageants, Mardi Gras, parades, cavalcades, illuminations, fireworks

.7 **Public games and sports**

Jousts, greast poles, see-saws, swings, merry-go-rounds, roller coasters, rinks

.8 **Menageries** **Traind animals**

Animal sports. Combats between and against animals: wrestling bears, bull-fights, dog fights, baiting badgers, cat and rat fights, cock fights, etc.

Traind or trick animals. For horse racing see 798.4; for racing other animals, 798.8

For zoologic gardens see 590.7

.9 **Other**

792 Theater Stage Dramatic art

Fotoplays. See also 782 Dramatic music; 793 Private theatricals. For architecture of theaters see 725.82; for dramatic literature see appropriate subdivisions under 800

.1 **Serious drama** **Tragedy**

Passion plays, miracle plays, morality plays

.2 **Comedy** **Vaudevil**

.3 **Farce** **Pantomime**

.4 **Opera** **Lyric drama**

.5 **Comic opera**

.6 **Operetta and musical comedy**

.7 **Music halls**

See 725.81

.8 **Ballet** **Fairy scenes** **Choreografy**

.9 **Other**

793 Indoor entertaiment Parties

Including lawn parties, etc.

.1 **Private theatricals**

See also 792 Theater

.2 **Entertainments requiring preparation**

.22 Seasonal entertainments

Autumn, Christmas, Washington's birthday, May day

.24 Tableaux Charades

Living statuary, acted proverbs, game of caracters

793.3 **Dancing**

For choreografy and ballets see 792.8; for children's dances see 796.13

.31 Folk dances National dances

See also Music 781.50857

.32 Artistic dancing

Theatric dancing. Caracteristic dances. Classic dances: old Greek dances. Old French dances: minuet, gavot. For dances of North American Indians see 970.6

See also Music 781.50858

.33 Dances for 2 persons

Round dances: polka, waltz, mazurka, redowa, schottish, 2-step, tango etc.

.34 Dances for more than 2 persons (without accessory features)

Quadril, 4-step, lancers, Virginia reel, etc.

.35 Dances (with accessory features)

Cotillion, german, sword dance, etc.

.38 Balls

.3808 Programs, german cards, etc.

.382 **Court or state balls**

.384 **Public balls**

.386 **Mask and fancy-dress balls**

.4 **Games of action**

Blindman's buf, hot cockles, hunt the slipper

.5 **Forfeit and trick games**

.7 **Games not caracterized by action**

.71 Instructiv games

Including memory games

Alliteration, authors, logomachy, observation, spelling match, etc.

.72 Games of quick wit

Fish, flesh and fowl; prohibited words; etc.

.73 Guessing games Riddles Conundrums Puzzles

Identification, crambo, acrostics, anagrams, rebuses etc. For charades see 793.2

.74 Mathematical games

Including games requiring calculation

Quadralets, magic squares, etc.

.75 Table games

Angling, bobéchon, jackstraws, tiddledewinks etc.

.76 Ring games

Button, button; compliments; nonsense; scandal; etc.

.8 **Parlor magic**

Scientific amusements, including pseudoscience

.9 **Other indoor diversions**

794 Games of skil

.1 **Ches**

.2 **Checkers and similar games**

Drafts, gobang, agon, fanorona, halma etc.

.5 **Marble solitaire** **Peg solitaire**

For card solitaire see 795.43

.6 **Bowling** **Skittles** **Ninepins** **Tenpins**

For lawn bowling see 796.31

.7 **Indoor ball games: cue, mallet, racket**

Billiards, pool, carom, troco

.9 **Other**

795 Games of chance

.1 **Games with dice and bones**
Game of goose, tricktrack, backgammon, revertier

.2 **Wheel and top games**
Teetotum, roulette, steeplechase
For steeplechase, with significance of cross-country racing, see 798.45

.3 **Games dependent on drawing numbers or counters**
Lotto, biribi, keno, dominos, matador, mah jong

.4 **Card games**

.41 Games of skil
Piquet, imperial, écarté, euchre, triumf, poker, whist, ombor, reversis, cribbage, Boston, skat, bridge, auction bridge, solo etc.

.42 Games of chance
Gleek, 31, rouge et noir, 30 and 40, Pope Joan, lansquenet, baccarat, faro, monte, truth, etc.

.43 Games based on position and skil
Patience, card solitaire, card tricks
For fortune-telling by cards see 133.3

.49 Other card games

.5 **Games dependent on articles tost or rolled**

.9 **Other games of chance**

796 Athletic and outdoor sports and games

For school games and athletics see 371.74

.007 Rules, umpires etc.

.01 **Theory Purpose Value**

.02 **Compends**

.03 **Dictionaries Cyclopedias**

.04 **Essays Addresses Lectures**

.05 **Periodicals**

.058 Annuals Directories

.06 **Associations Societies Clubs**

.063 Congresses Conferences

.07 **Education Training Coaching**

.08 **Polygrafy**

.09 **History**
Divided like 930–999

.1 **Children's games Open air play Playgrounds**
See also under Kindergarten 372.215

.11 Games for smallest children
For toys and nursery play see 649.55

.12 Children's sand and seashore amusements

.13 Singing, dancing and marching games
Ring games, rounds and dances
See also Music 781.50854

.14 Activ games Chasing games
Leap frog, somersault, hide and seek, puss in corner, prisoner's base, etc.
Counting-out games

.15 Aerial toys
Kite flying, aeroplanes, balloons

796.2 **Activ games with appliances**
For ball games see 796.3

.21 Shovelboard, hopscotch, swing, hoop, skipping rope

.23 Minor ground games
Marbles, jackstones, mumble the peg

.24 Pitching games
Quoits, horseshoe pitching, pitch and toss, tipcat

.25 Toss and catch games
Cup and ball, diabolo, bean bag

.26 Battledore and shuttlecock

.3 **Ball games Throwing games**

.31 Balls thrown directly by hand
Handball, field ball, Indian ball, cavalry ball, poison ball, lawn bowling, etc.

.32 Inflated ball thrown by hand
Basl et ball, volley ball, pallone, etc.

.33 Inflated ball driven by foot
Football, soccer, Rugby, pushball, etc.

.34 Ball thrown with racquet
Tennis, la crosse, badminton, squash, etc.

.35 Ball driven by mallet or bat

.351 **Generalities**

Mallet games

.352 **Golf**

.353 **Polo**

.354 **Croquet, pall mall, etc.**

.355 **Field hockey**

Bat games

.357 **Baseball**

.358 **Cricket**

.37 Other throwing games

.38 Throwing sports
Javelin, spear, boomerang, discus, shot putting

.4 **Athletic training Gymnastics Olympic games**
For physical education see 371.73; for hygiene see 613.7

.407 **Systems**

Light exercizes

.41 Calisthenics
Exercizes for strength and suppleness. Free exercizes, setting-up exercizes, dumb bells, barbells, Indian clubs, wands

.42 Marching Running Stilts
Cross country, distance, foot, marathon running; hurdle racing; sprinting; etc.

Hevy exercizes

.43 Jumping Vaulting Balancing
High jumping, broad jumping, springboard; pole vaulting, horse vaulting; balancing exercizes, mat work, pyramids; etc.

.44 Horizontal bars Parallel bars

.46 Trapeze Rings Ropes Ladders

.47 Acrobatism Contortion Tumbling

796.5 Touring Climbing Pedestrianism Camping
.51 Pedestrianism Walking
.52 Alpinism Mountain climbing
.521 Guides: rules and rates
For insurance of guides see 368.4 Accident insurance
.522 Dangers and accidents: precautions and rules
For accidents not due to climbing see 551.3 landslides, 551.31 avalanches, 551.57 freshets. For maladies see 616 Pathology, and 612 Physiology, 612.2751 Mountain sickness, 616.12 Hart disturbances, 616.13 Hemorrhage of arteries, 616.243 Hemorrhage of lungs, 616.841 Vertigo
.523 Calls and signals
.53 Caravaning
.54 Camping
.545 Woodcraf
.6 Cycling
Man-power locomotiv apparatus
Solely as sport
.7 Automobiling
Motor-driven vehicles
Solely as a sport
.8 Athletic sports
See also 791.8 for combats with animals
.81 Wrestling
.82 Olympic, Greco-Roman wrestling
.83 Boxing
.86 Fencing
For rules of dueling see 394.8
.862 Quarterstaf fencing Singlestick
.863 Foil and sword
.865 Saber
.89 Other athletic sports
.9 Ice and snow sports Ice carnivals
.91 Skating
.92 Snow shoeing
.93 Skiing Ski-löbing Skijoring
.94 Sleighing Sledging
.95 Coasting Tobogganing Aking
.96 Ice games
Ice hocky, bandy, curling, ice baseball
.97 Ice sports
Ice boating, cycling, horse racing

797 Boating and other water sports Aerostation

.1 Boating
Solely as a sport; for commercial navigation see 386, 387 and 656; for theory see 527
.12 With poles, paddles, oars, sails
.122 Canoeing
Paddling, sculling
.123 Rowing Punting
.124 Sailing
Yawl, catboat etc.
.125 Motor boats
.14 Yachts Racing Water carnivals
Launches, houseboats
For interschool races see 371.75
.15 Excursion boats
.17 Minor methods of navigation
Velocipeds, podoscafs, water toboggans, etc.
.2 Swimming and diving
.21 Swimming without apparatus
.22 " with "
.25 Games
Water polo, canoe polo, water quintain
.5 Aerostation
As a sport. For construction of air craft see 629.13, for commercial side see 387.7

798 Horsemanship Racing

As a sport. For care of horses see 636.1
.2 Horsemanship
.22 Training saddle horses
.23 Riding
.24 Riding schools Riding exhibitions
.4 Horse racing Trotting
Courses, tracks
Race horses: breeding, training; may, if preferd, be clast under 636.12
.45 Obstacle races Steeplechases
.6 Carriage horses Spans
See also 636.14
.62 Training carriage horses
.64 Driving Coaching
.66 Carriageways, drives Exhibitions of driving
.8 Racing other animals
Whippet racing

799 Fishing, hunting, target shooting

Solely as a sport. For trapping and hunting as an industry see 639.1; for fishing as an industry see 639.2–.6

.1 **Fishing**

.11 Freshwater fishing

.12 Angling

.13 Net fishing Seining

.14 Other methods of fishing

.15 Shore fishing

.16 Sea fishing

.17 For special kinds of fish

Subdivided like 597

.2 **Hunting**

.21 Shooting game

.22 Hunting in open country and in covers

.23 Hunting with retrievers, pointers

.24 Bird hunting

.242 **Land birds**

Field and cover hunting

.243 **Bay shooting** **Shore shooting** **Fenbirds**

.244 **Water fowl**

.248 **Special birds**

Subdivided like 598

.25 Hunting with hounds, falcons, etc. Jack hunting, drag hunting

For general works on both dangerous and nondangerous animals, also nondangerous animals alone. For dangerous animals alone see 799.26. For special animals, dangerous or nondangerous, see 799.27

.26 Hunting dangerous animals

.261 **Generalities**

.262 **Methods**

Firearms, bolas, lasso, spear, boomerang, sling etc.

.27 Special animals

May be subdivided for 799.271–.278 like 599.1–.8, adding (if needed) man hunting as 799.2789, and classing creatures not included under 599 in 799.279 subdivided like 590, e. g. crocodile hunting 799.279814; or, if preferd, may be arranged alfabeticly by assigning Cutter book numbers from name of animal

.28 Hunting with camera

.29 By country

Divide like 930–999

.3 **Shooting (otherwize than for game)**

For shooting game see 799.21

.31 Target practis Trap shooting

With firearms: pistols, shotguns, rifles, carbines

.32 Archery: longbow, crossbow

.39 Other means of shooting

Catapult, airgun

Literature
Belles-lettres

The classification of literature is by *language*, not country, except that North and South American ar separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assignd to individual authors include only their *literary* works of that section and complete works which can not be divided. Books on other subjects go with their proper subjects, unless a 'special library' attracts all the authors' works, lives, etc. An author writing in 2 periods has all his books put in the one where most of them belong.

800 Literature: general works

801 Philosofy Theories Literary esthetics

802 Compends, outlines

803 Dictionaries, cyclopedias

804 Essays, lectures, addresses

Clas here collections of essays, addresses, lectures, etc. of which literature in general is the *subject*. For collections of essays in general, taken from various literatures, see 808.84; for collections of essays regarding a special literature see 04 under number for that literature, i. e. 810.4 Collections of essays *regarding* American literature; 820.4 for those regarding English literature, etc. For collections of literary essays belonging to a special literature see division 4 under number for that literature; i. e. Collections of American essays (by either 1 or several writers) 814, of English essays 824, etc. Collected essays on a special subject ar clast under number for that subject, i. e. 504 collections of essays on science in general or including 4 or more divisions of science, uzing similarly e. g. for collections covering the subject in general or 4 or more divisions of the subject 530.4, 572.04, etc. For a collection covering les than 4 divisions clas under number for 1st or most important

805 Periodicals, magazines, reviews

806 Societies: transactions, reports, etc.

807 Study and teaching of literature

808 Rhetoric Literary composition Collections

Divided .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory, see also 784.9 Vocal culture .6 Letters, epistolografy .7 Satire, humor

These heds, 808.1–.7, treat literature from standpoint of Rhetoric, and include only works *about* poetry, etc. regardless of language. For Collections see 808.8 below

.8 **Collectons from several literatures**

Including books of quotations from several literatures

.81–.87 may be uzed like 808.1–.7, e. g. a collection of poetry from several literatures 808.81; of drama, 808.82. Clas collections relating to a special subject under number for that subject; e. g. Collections of writings on architecture 720.8, on history 908

809 History of literature in general

Including general histories of books and knowledge; e. g. Hallam's *Literature of the middle ages*

Divided like 808 .1 Poetry .2 Drama .3 Fiction, etc.

810 American literature

Includes Canadian English, which may be kept separate by prefixing C; e. g. C811 Canadian poetry

.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on American literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of American literature

811 American poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of American poetry

.1	**Colonial 1607–1776**	
.11	Sandys, George	1577–1644
.12	Bradstreet, Anne	1612–72
.13	Wigglesworth, Michael	1631–1705
.14	Green, Joseph	1706–80
.15	Livingston, William	1723–90
.16	Ferguson, Elizabeth	1739–1801
.2	**Post-revolutionary 1776–1830**	
.21	Trumbull, John	1750–1831
.22	Dwight, Timothy	1752–1817
.23	Barlow, Joel	1755–1812
.24	Freneau, Philip	1752–1832
.25	Alsop, Richard	1761–1841
.26	Pierpont, John	1785–1866
.27	Dana, Richard Henry	1787–1879
.28	Sprague, Charles	1791–1875
.29	Other poets	
.3	**Middle 19th century 1830–61**	
.31	Halleck, Fitz-Greene	1790–1867
.32	Poe, Edgar Allan	1809–49
.33	**Bryant, William Cullen**	1794–1878
.34	**Longfellow, Henry Wadsworth**	1807–82
.35	Read, Thomas Buchanan	1822–72
.36	**Whittier, John Greenleaf**	1807–92
.37	**Lowell, James Russell**	1819–91
.38	Whitman, Walt	1819–92
.39		
.4	**Later 19th century 1861–1900**	
.41	Stoddard, Richard Henry	1825–1903
.42	Hayne, Paul Hamilton	1831–86
.43	Stedman, Edmund Clarence	1833–1908
.44	Winter, William	1836–1918
.45	Miller, Cincinnatus Hiner (Joaquin)	1841–1913
.46	Taylor, Bayard	1825–78
.47	Lanier, Sidney	1842-81
.48	Gilder, Richard Watson	1844-1909
.49	Other	
.5	**Early 20th century 1901–**	

812 American drama

.1	**Colonial 1607–1776**	
.11	Warren, Mercy	1728–1814
.12	Godfrey, Thomas	1736–63
.13		
.2	**Post-revolutionary 1776–1830**	
.21	Tyler, Royall	1757–1826
.22	Dunlap, William	1766–1839
.23	Hillhouse, James Abraham	1789–1841
.24	Ingersoll, Charles Jared	1782–1862
.25		
.3	**Middle 19th century 1830–61**	
.31	Ritchie, Anna Cora Mowatt	1818–70
.32	Mathews, Cornelius	1817–89
.33	Boker, George Henry	1823–90
.34		
.4	**Later 19th century 1861–1900**	
.41		
.5	**Early 20th century 1901–**	

813 American fiction

.1	**Colonial 1607–1776**	
.2	**Post-revolutionary 1776–1830**	
.21	Brackenridge, Hugh Henry	1748–1816
.22	Rowson, Susanna	1762–1824
.23	Brown, Charles Brockden	1771–1810
.24	**Cooper, James Fenimore**	1789–1851
.25	Ware, William	1797–1852
.26	Neal, John	1793–1876
.27		
.28		
.29		
.3	**Middle 19th century 1830–61**	
.31	Thompson, Daniel Pierce	1795–1868
.32	Kennedy, John Pendleton	1795–1870
.33	**Hawthorne, Nathaniel**	1804–64
.34	Judd, Sylvester	1813–53
.35	Simms, William Gilmore	1806–70
.36	Melville, Herman	1819–91
.37	Stowe, Harriet Beecher	1812–96
.38		
.39		
.4	**Later 19th century 1861–1900**	
.41	Alcott, Louisa May	1832–88
.42	Eggleston, Edward	1837–1902
.43	Howells, William Dean	1837–1920
.44	Aldrich, Thomas Bailey	1836–1907
.45	Harte, Francis Bret	1839–1902
.46	James, Henry	1843–1916
.47	Hawthorne, Julian	1846–
.48	Burnett, Frances Hodgson	1849–24
.49	Minor novelists	
.5	**Early 20th century 1901–**	

814 American essays

.1	**Colonial 1607–1776**		
.2	**Post-revolutionary 1776–1830**		
.21	Rush, Benjamin	1745–1813	
.22	Webster, Noah	1758–1843	
.23	Channing, William Ellery	1780–1842	
.3	**Middle 19th century 1830–61**		
.31	Ossoli, Margaret Fuller	1810–50	
.32	Giles, Henry	1809–82	
.33	Tuckerman, Henry Theodore	1813–71	
.34	**Holland, Josiah Gilbert**	1819–81	
.35	Whipple, Edwin Percy	1819–86	
.36	**Emerson, Ralph Waldo**	1803–82	See also 191.3
.37	Curtis, George William	1824–92	
.4	**Later 19th century 1861–1900**		
.41	Burroughs, John	1837–1921	
.42	Higginson, Thomas Wentworth	1823–1911	
.43	Mabie, Hamilton Wright	1846–1916	
.44	Matthews, Brander	1852–	
.45	Repplier, Agnes	1858–	
.5	**Early 20th century 1901–**		

815 American oratory

.1	**Colonial 1607–1776**	
.11		
.12		
.2	**Post-revolutionary 1776–1830**	
.21	Hamilton, Alexander	1757–1804
.22	Ames, Fisher	1758–1808
.23	Wirt, William	1772–1834
.24	Randolph, John	1773–1833
.25	Clay, Henry	1777–1852
.26	Calhoun, John Caldwell	1782–1850
.27	Webster, Daniel	1782–1852
.28		
.29		
.3	**Middle 19th century 1830–61**	
.31	Everett, Edward	1794–1865
.32	Choate, Rufus	1799–1859
.33	Sumner, Charles	1811–74
.34	Phillips, Wendell	1811–84
.35	Chapin, Edwin Hubbell	1814–80
.36	Beecher, Henry Ward	1813–87
.4	**Later 19th century 1861–1900**	
.41		
.42		
.43		
.5	**Early 20th century 1901–**	

816 American letters

Subdivided by periods, like 811

817 American satire and humor

.1	**Colonial 1607-1776**	
.11	Ward, Nathaniel	1570–1653
.12	Alsop, George	1638– ?
.13	Byles, Mather	1706–88
.14	Hopkinson, Francis	1737–91
.15	Peters, Samuel Andrew	1735–1826
.2	**Post-revolutionary 1776–1830**	
.21	Story, Isaac	1774–1803
.22	Fessenden, Thomas Green	1771–1837
.23	Paulding, James Kirke	1779–1860
.24	**Irving, Washington**	1783–1859
.25	Verplanck, Gulian Crommelin	1786–1870
.26		
.27		
.3	**Middle 19th century 1830–61**	
.31	Neal, Joseph Clay	1807–47
.32	**Holmes, Oliver Wendell**	1809–94
.33	Shelton, Frederick William	1814–81
.34	Shillaber, B P (Mrs Partington)	1814–90
.35	Saxe, John Godfrey	1816–87
.36	Cozzens, Frederick Swartout	1818–69
.37	Browne, C: F (Artemus Ward)	1834–67
.38	Haliburton, Thomas Chandler	1796–1865
.39	Other satirists and humorists	
.4	**Later 19th century 1861–1900**	
.41	Warner, Charles Dudley	1829–1900
.42	Locke, David Ross (P V Nasby)	1833–88
.43	Burdette, Robert J	1844–1914
.44	Clemens, S: L (Mark Twain)	1835–1910
.45	Carleton, William	1845–1912
.46	Shaw, Henry W (Josh Billings)	1818–85
.47	Nye, Edgar Wilson (Bill Nye)	1850–96
.48	Bangs, John Kendrick	1862–1922
.49	Other satirists and humorists	
.5	**Early 20th century 1901–**	

818 American miscellany

.3	**Middle 19th century 1830–61**	
.31	Thoreau, Henry David	1817-62
.32	Mitchell, Donald Grant (Ik Marvel)	1822–1908
.4	**Later 19th century 1861–1900**	
.5	**Early 20th century 1901–**	

820 English literature

Canadian literature may be clas'as British, if preferd, but separated by prefixing C to 820. See note to 810

820.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on English literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

821 English poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of English poetry

.1	**Early English 1066–1400**	
.11	Layamon	1150–1207
.12	Ormin	1187–1237
.13	Robert of Gloucester	1245–1307
.14	Minot, Lawrence	1313–52
.15	Langland, William	1332–99
.16	Barbour, John	1316–95
.17	**Chaucer, Geoffrey**	1340–1400
.18	Gower, John	1325–1408
.19	Minor writers	
.2	**Pre-Elizabethan 1400–1558**	
.21	Lydgate, John	1369–1461
.22	Skelton, John	1460–1529
.23	Dunbar, William	1460–1520
.24	Douglas, Gavin	1474–1522
.25	Hawes, Stephen	1483–1509
.26	Lyndsay, Sir David	1490–1555
.27	Wyatt, Sir Thomas	1503–42
.28	Surrey, Henry Howard, earl of	1517–47
.29	Minor writers	
.3	**Elizabethan 1558–1625**	
.31	**Spenser, Edmund**	1553–99
.32	Sidney, Sir Philip	1554–86
.33	Daniel, Samuel	1562–1619
.34	Drayton, Michael	1563–1631
.35	Davies, John	1569–1626
.36	Drummond, William	1585–1649
.37	Fletcher, Giles and Phineas	1585–1650
.38	Herbert, George	1593–1632
.39	Minor writers	
.4	**Post-Elizabethan 1625–1702**	
.41	Suckling, Sir John	1609–42
.42	Crashaw, Richard	1616–50
.43	Herrick, Robert	1591–1674
.44	Waller, Edmund	1605–87
.45	Lovelace, Richard	1618–58
.46	Cowley, Abraham	1618–67
.47	**Milton, John**	1608–74
.48	**Dryden, John**	1631–1700
.49	Minor writers	

821.5	**Queen Anne** Early 18th century	1702–45	
.51	Prior, Matthew	1664–1721	
.52	Parnell, Thomas	1679–1717	
.53	**Pope, Alexander**	1688–1744	See also 827.55
.54	Ramsay, Allan	1686–1758	
.55	Young Edward	1684–1765	
.56	Thomson, James	1700–48	
.57	Collins, William	1721–59	
.58	Shenstone, William	1714–63	
.59	Minor writers		
.6	**Later 18th century** Pre-revolutionary	1745–1800	
.61	Gray, Thomas	1716–71	
.62	Akenside, Mark	1721–70	
.63	Chatterton, Thomas	1752–70	
.64	Goldsmith, Oliver	1728–74	
	See also 823.64 and 824.66		
.65	Cowper, William	1731–1800	
.66	Macpherson, James	1738–96	
.67	**Burns, Robert**	1759–96	
.68	White, Henry Kirke	1785–1806	
.69	Minor writers		
.7	**Early 19th century** Post-revolutionary	1800–37	
.71	Wordsworth, William	1770–1850	
.72	Coleridge, Samuel Taylor	1772–1834	
.73	Southey, Robert	1774–1843	
.74	Scott, Sir Walter	1771–1832	See also 823.73
.75	Moore, Thomas	1779–1852	
.76	Byron, George Gordon Noel, 6th lord	1788–1824	
.77	Shelley, Percy Bysshe	1792–1822	
.78	Keats, John	1795–1821	
.79	Minor writers		
.8	**Victorian period**	1837–1900	
.81	Tennyson, Alfred, 1st baron	1809–92	
.82	Browning, Elizabeth Barrett	1809–61	
.83	Browning, Robert	1812–89	
.84	Rossetti, Dante Gabriel	1828–82	
.85	Morris, William	1834–96	
.86	Swinburne, Algernon Charles	1837–1909	
.87	Bridges, Robert Seymour	1844–	
.88	Watson, Sir William	1858–	
.89	Minor writers		
.91	**Early 20th century 1901–**		

822 English drama

.1	**Early English 1066–1400**	
.11	Chester plays	
.12	Coventry plays	
.13	Townley plays	

822.2	**Pre-Elizabethan**	**1400–1558**	
.21	Heywood, John	1506–65	
.22	Udall, Nicholas	1505–64	
.23	Bale, John	1495–1563	
.3	**Elizabethan**	**1558–1625**	
.31	Greene, Robert	1561–92	
.32	Marlowe, Christopher	1564–93	
.33	**Shakspere, William**	1564–1616	
.34	**Jonson, Ben**	1574–1637	
.35	**Beaumont, Francis**	1584–1616	
	and Fletcher, John	1579–1625	
.36	Webster, John	1582–1652	
.37	Massinger, Philip	1584–1640	
.38	Ford, John	1586–1639	
.39	Minor writers		
.4	**Post-Elizabethan**	**1625–1702**	
.41	Davenant, Sir William	1605–68	
.42	Etherege, Sir George	1637–88	
.43	Crowne, John	1644–99	
.44	Wycherly, William	1640–1715	
.45	Otway, Thomas	1651–85	
.46	**Congreve, William**	1670–1729	
.47	Vanbrugh, Sir John	1666–1726	
.48	Farquhar, George	1678–1707	
.49	Minor writers		
.5	**Queen Anne** Early 18th century	**1702–45**	
.51	Dennis, John	1657–1734	
.52	Southerne, Thomas	1660–1746	
.53	Centlivre, Mrs Susannah (Freeman)	1668–1723	
.54	Cibber, Colley	1671–1757	
.55	Rowe, Nicholas	1674–1718	
.56	Gay, John	1688–1732	
.57	Lillo, George	1693–1739	
.58			
.59	Minor writers		
.6	**Later 18th century**	**1745–1800**	
.61	Garrick, David	1716–79	
.62	Foote, Samuel	1721–77	
.63	Colman, George, the elder	1732–94	
.64	Home, John	1724–1808	
.65	Cumberland, Richard	1732–1811	
.66	**Sheridan, Richard Brinsley**	1751–1816	See also 825.64
.67	Inchbald, Mrs Elizabeth (Simpson)	1753–1821	
.68			
.69	Minor writers		
.7	**Early 19th century**	**1800–1837**	
.71	Baillie, Joanna	1762–1851	
.72	Knowles, James Sheridan	1784–1862	
.8	**Victorian period**	**1837–1900**	
.91	**Early 20th century**	**1901–**	

823 English fiction

.1	**Early English**	**1066–1400**	
.2	**Pre-Elizabethan**	**1400–1558**	
	More's *Utopia*		
.3	**Elizabethan**	**1558–1625**	
	Lyly's *Euphues*		
.4	**Post-Elizabethan**	**1625–1702**	
.41	Harrington, James	1611–77	
.42	**Bunyan, John**	1628–88	
.43	Mackenzie, George	1636–91	
.44	Behn, Aphra	1640–89	
.5	**Queen Anne**	**1702–45**	
.51	Defoe, Daniel	1661–1731	
.52	Fielding, Henry	1707–54	
.6	**Later 18th century**	**1745–1800**	
.61	Richardson, Samuel	1689–1761	
.62	Sterne, Laurence	1713–68	
.63	Smollett, Tobias George	1721–71	
.64	**Goldsmith, Oliver**	1728–74	
	See also 821.64 and 824.66		
.65	Mackenzie, Henry	1745–1831	
.66	Arblay, Frances (Burney), madame d'	1752–1840	
.67			
.68			
.69	Minor writers		
.7	**Early 19th century**	**1800–37**	
.71	Lewis, Matthew Gregory	1775–1818	
.72	Edgeworth, Maria	1767–1849	
.73	**Scott, Sir Walter**	1771–1832	See also 821.74
.74	Austen, Jane	1775–1817	
.75	Porter, Jane	1776–1850	
.76	Peacock, Thomas Love	1785–1866	
.77	Galt, John	1779–1839	
.78	Marryat, Frederick	1792–1848	
.79	Minor writers		
.8	**Victorian period**	**1837–1900**	
.81	Brontë, Charlotte	1816–55	
.82	**Thackeray, William Makepeace**	1811–63	
.83	**Dickens, Charles**	1812–70	
.84	Lytton, Edward George Bulwer, 1st baron	1803–73	
.85	Kingsley, Charles	1819–75	
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–81	
.87	Trollope, Anthony	1815–82	
.88	Cross, Mary Ann (Evans) Lewes [George Eliot]	1819–80	
.89	Minor writers		
.91	**Early 20th century**	**1901–**	

824 English essays

.3	**Elizabethan 1558–1625**		
	Francis Bacon 1561–1626		
.4	**Post-Elizabethan 1625–1702**		
	John Locke 1632–1704		
.5	**Queen Anne 1702–45**		
.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713	
.52	**Addison, Joseph**	1672–1719	
.53	Steele, Sir Richard	1671–1729	
.54	Budgell, Eustace	1686–1737	
.55			
.56			
.57			
.58			
.59			
.6	**Later 18th century 1745–1800**		
.61	Moore, Edward	1712–57	
.62	Kames, Henry Home, lord	1696–1782	
.63	**Johnson, Samuel**	1709–84	
.64	Hume, David	1711–76	See also 192.4
.65	Hawkesworth, John	1715–73	
.66	Goldsmith, Oliver	1728–74	
	See also 821.64 and 823.64		
.67	Gibbon, Edward	1737–94	
.68			
.69	Minor writers		
.7	**Early 19th century 1800–37**		
.71	Mackintosh, Sir James	1765–1832	
.72	Smith, Sydney	1771–1845	
.73	Jeffrey, Francis, lord	1773–1850	
.74	Brougham, Henry, 1st baron	1778–1868	
.75	**Lamb, Charles**	1775–1834	
.76	Hazlitt, William	1778–1830	
.77	Hunt, Leigh	1784–1859	
.78			
.79	Minor writers		
.8	**Victorian period 1837–1900**		
.81	De Quincey, Thomas	1785–1859	
.82	Carlyle, Thomas	1795–1881	
.83	Macaulay, Thomas Babington, 1st baron	1800–59	
.84	Helps, Sir Arthur	1817–75	
.85	Arnold, Matthew	1822–88	
.86	Ruskin, John	1819–1900	
.87	Pater, Walter Horatio	1839–94	
.88	Gosse, Sir Edmund William	1849–	
.89	Minor writers		
.91	**Early 20th century 1901–**		

825 English oratory

For 'speakers' see 808.8

Subdivided by periods like 821

.6	**Later 18th century 1745–1800**		
.61	Chatham, William Pitt, 1st earl of	1708–78	
.62	**Burke, Edmund**	1729–97	
.63	Fox, Charles James	1749–1806	
.64	**Sheridan, Richard Brinsley**	1751–1816	See also 822.66
.65	Grattan, Henry	1750–1820	
.66	Pitt, William	1759–1806	

826 English letters

Subdivided by periods like 821

.2	**Pre-Elizabethan 1400–1558**		
	Paston letters		
.5	**Queen Anne 1702–45**		
.51	Montagu, Lady Mary (Pierrepont) Wortley	1690–1762	
.52	Chesterfield, Philip Dormer Stanhope, 4th earl of	1694–1773	
.53			
.6	**Later 18th century 1745–1800**		
.61	Orford, Horace Walpole, 4th earl of	1717–97	
.62	Montagu, Mrs Elizabeth (Robinson)	1720–1800	

827 English satire and humor

.2	**Pre-Elizabethan 1400–1558**	
.21	Barclay, Alexander	1475–1552
.3	**Elizabethan 1558–1625**	
.31	Gascoigne, George	1537–77
.32	Harington, Sir John	1561–1612
.33	Hall, Joseph	1574–1656
.34	Marston, John	1575–1634
.35	Donne, John	1573–1631
.36		
.37		
.38		
.39		
.4	**Post-Elizabethan 1625–1702**	
.41	Wither, George	1588–1667
.42	**Butler, Samuel**	1612–80
.43	Marvell, Andrew	1620–78
.44	D'Urfey, Thomas	1625–1723
.45	Oldham, John	1653–83
.46	Brown, Thomas	1663–1704
.47	King, William	1663–1712
.48	Garth, Sir Samuel	1665–1719
.49	Minor writers	

827.5 **Queen Anne 1702-45**
.51 Ward, Edward 1667–1731
.52 **Swift Jonathan** 1667–1745
.53 Mandeville, Bernard de 1670–1733
.54 Arbuthnot, John 1675–1735
.55 Pope, Alexander 1688–1744 See also 821.53
.56
.57
.58
.6 Later 18th century 1745–1800
.61 Churchill, Charles 1733–65
.62 Amory, Thomas 1691–1788
.63 Whitehead, Paul 1710–74
.64 Junius *pseud.* 1679–1772
.65 Wolcott, John [Peter Pindar] 1738–1819
.66
.67
.68
.7 Early 19th century 1800–37
.71 Gifford, William 1757–1826
.72 Hood, Thomas 1798–1845
.73
.74
.75
.76
.8 Victorian 1837–1900
.81 Jerrold, Douglas 1803–57
.82
.83
.84
.85
.86
.91 Early 20th century 1901–

828 English miscellany

Anecdotes, ana, epigrams, quotations, etc. if illustrativ of any special subject (e. g. biografy, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon literature

.1 Poetry
.2 Cædmon
.3 Beowulf
.4 Cynewulf
.5 Homilies and religious
.6 Ælfric
.7 Alfred the Great
.8 Miscellaneous
.9 Historic and biografic

830 German literature

830.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on German literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

831 German poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of German poetry

.1 Before the Crusades –1150
.11 *Hildebrandslied*
.12 Otfried
.13 *Ludwigslied*
.14 *Muspilli*
.2 Middle high 1150–1300
.21 *Nibelungenlied*
.22 *Gudrun*, and minor folk epics
.23 Heinrich von Veldeke –1200 See also 839.3112
.24 Wolfram von Eschenbach
.25 Gottfried von Strassburg
.26 Hartmann von Aue 1170–1220
.27 Walther von der Vogelweide 1170–1230
.28 Ulrich von Lichtenstein 1199–1276
.29 Minor writers
.3 Period of decline 1300–1517
.31 Horneck, Ottokar von
.32 Hadamar von Laber
.33 Hermann von Sachsenheim –1458
.34 Büheler, Hans *Die sieben weisen meister* 1414–
35 Kaspar von der Röhn *Das heldenbuch*
.36 *Theuerdank*
.37 *Die Haimonskinder*
.38 Mastersingers
.39 Minor writers
.4 Reformation; new high 1517–1625
.41 Agricola, Martin 1486–1556
.42 Waldis, Burkard 1490–1558
.43 Alberus, Erasmus 1500–53
.44 **Sachs, Hans** 1494–1576
.45 Ringwaldt, Bartholomäus 1530–99
.46 Rollenhagen, Georg 1542–1609
.47 Andreä, Johann Valentin 1586–1654
.5 Period of imitation 1625–1750
The Silesian schools
.51 Opitz von Boberfeld, Martin 1597–1639
.52 Flemming, Paul 1609–40
.53 Logau, Friedrich von 1604–55
.54 Gerhardt, Paul 1607–76
.55 Hofmannswaldau, Christian Hofmann von 1618–79
.56 Zesen, Philipp von 1619–89
.57 Brockes, Barthold Heinrich 1680–1747
.58 Bodmer, Johann Jakob 1698–1783
.59 Minor writers

831.6 Classic period 1750–1830

For Göthe and Schiller, see 832.6

.61	Gellert, Christian Fürchtegott	1715–69
.62	**Klopstock, Friedrich Gottlieb**	1724–1803
.63	Bürger, Gottfried August	1748–94
.64	**Herder, Johann Gottfried von**	1744–1803
.65	Voss, Johann Heinrich	1751–1826
.66	Körner, Karl Theodor	1791–1813
.67	Hölderlin, Johann Christian Friedrich	1770–1843
.68	Platen Hallermünde, August, graf von	1796–1835
.69	Minor writers	

.7 Postclassic period 1830–56

.71	Arndt, Ernst Moritz	1769–1860
.72	Eichendorff, Joseph, freiherr von	1788–1857
.73	Uhland, Johann Ludwig	1787–1862
.74	Rückert, Friedrich	1789–1866
.75	**Heine, Heinrich**	1799–1856
.76	Niembsch von Strehlenau, Nikolaus	1802–50
.77	Auersperg, Anton Alexander, graf von [Anastasius Grün]	1806–81
.78	Freiligrath, Ferdinand	1810–76
.79	Minor writers	

.8 Later 19th century 1856–1900

.81	Schefer, Leopold	1784–1862
.82	Kinkel, Johann Gottfried	1815–82
.83	Geibel, Emanuel	1815–84
.84	Bodenstedt, Friedrich Martin	1819–92
.85		
.86		
.87		
.88		
.89	Minor writers	

.91 Early 20th century 1901–

832 German drama

.5 Period of imitation 1625–1750

.51	Gryphius, Andreas	1616–64
.52	Lohenstein, Daniel Casper	1635–83
.53	Weise, Christian	1642–1708
.54	Gottsched, Johann Christoph	1700–76
.55	Gottsched, Luise Adelgunde Victorie (Culmus)	1713–62

.6 Classic period 1750–1830

.61	**Lessing, Gotthold Ephraim**	1729–81
.62	**Göthe, Johann Wolfgang von**	1749–1832
.63	**Schiller, Johann Christoph Friedrich**	1759–1805
.64	Klinger, Friedrich Maximilian	1753–1831
.65	Iffland, August Wilhelm	1759–1814
.66	Kotzebue, August Friedrich Ferdinand von	1761–1819
.67	Werner, Friedrich Ludwig Zacharias	1768–1823
.68	Kleist, Heinrich Bernt Wilhelm von	1777–1811
.69	Minor writers	

832.7 Postclassic period 1830–56

.71	Grabbe, Christian Dietrich	1801–36
.72	Griepenkerl, Wolfgang Robert	1810–36
.73	Grillparzer, Franz	1791–1872
74	Birch-Pfeiffer, Charlotte	1800–68
.75	Münch-Bellinghausen, Eligius Franz Joseph [Friedrich Halm]	1806–66
.76	Laube, Heinrich	1806–84
.77	Hebbel, Friedrich	1815–63
.78	Gutzkow, Karl Ferdinand	1811–78
.79	Minor writers	

.8 Later 19th century 1856–1900

.81	Benedix, Julius Roderich	1811–73
.82	Mosenthal, Salomon Hermann	1821–77
.83	Brachvogel, Albert Emil	1824–78
.84	Gottschall, Karl Rudolph	1823–1909
.85	Lindau, Paul	1839–
.89	Minor writers	

.91 Early 20th century 1901–

833 German fiction

.5 Period of imitation 1625–1750

.51	Buchholtz, Andrew Heinrich	1607–71
.52	Grimmelshausen, Hans Jakob Christoffel von	1625–76
.53	Anselm, Heinrich	1653–97
.54	*Robinsonaden*	
.55	*Der Neue Amadis*	

.6 Classic period 1750–1830

.61	Wieland, Christoph Martin	1733–1813
.62	Richter, Jean Paul Friedrich	1763–1825
.63	Hardenberg, Friedrich von [Novalis]	1772–1801
.64	Hoffmann, Ernst Theodor Wilhelm	1776–1822
.65	La Motte Fouqué, Friedrich H; C;	1777–1843
.66	Arnim, Ludwig Achim von	1781–1831
.67	Hauff, Wilhelm	1802–27
.68	Chamisso, Adelbert von	1781–1838
.69	Minor writers	

.7 Postclassic period 1830–56

.71	Zschokke, Johann Heinrich Daniel	1771–1848
.72	Brentano, Clemens	1778–1842
.73	Tieck, Ludwig	1773–1853
.74	Postl, Karl [Charles Sealsfield]	1793–1864
.75	Häring, Wilhelm [Wilibald Alexis]	1798–1871
.76	Hahn-Hahn, Ida, gräfin von	1805–80
.77	Gerstäcker, Friedrich	1816–72
.78	Hackländer, Friedrich Wilhelm	1816–77
.79	Minor writers	

833.8 **Later 19th century 1856–1900**
- .81 Auerbach, Berthold 1815–82
- .82 Freytag, Gustav 1816–95
- .83 Scheffel, Joseph Viktor von 1826–96
- .84 Spielhagen, Friedrich 1829–1911
- .85 Heyse, Paul Johann Ludwig 1830–1914
- .86 Ebers, Georg 1837–98
- .89 Minor writers
- .91 **Early 20th century 1901–**

834 German essays
Subdivided by periods like 831

835 German oratory " "

836 German letters " "

837 German satire and humor

- .2 **Middle high: minnesingers 1150–1300**
  - .21 [Stricker, Der] *Der Pfaffe Amis* and *Beispiele*
  - .22 *Salomon und Morolf*
- .3 **Period of decline 1300–1517**
  - .31 *Reineke Vos* See also 839.3171
  - .32 Brant, Sebastian 1458–1521
- .4 **Reformation: new high 1517–1625**
  - .41 Murner, Thomas [Tyll Eulenspiegel] 1475–1537
  - .42 Fischart, Johann 1550–89
- .5 **Period of imitation 1625–1750**
  - .51 Moscherosch, Johann Michael 1601–69
  - .52 Rachel, Joachim 1618–69
  - .53 Wernicke, Christian 1660–1720
  - .54 Liscow, Christian Ludwig 1701–60
- .6 **Classic period 1750–1830**
  - .61 Rabener, Gottlieb Wilhelm 1714–71
  - .62 Blumauer, Aloys 1755–98

838 German miscellany
See 828, note

839 Other Teutonic literatures
Subdivided by form, poetry, drama, etc. like 830

- .1 **Western Germanic literatures in general**
- .2 **Frisian Old Saxon**
- .3 **Netherlandish**
  - .31 **Dutch literature**
    - .311 Dutch poetry
      - 1 **Middle ages** 1200–1450
        (2 Heinrije van Veldeke 1200, see 831.23) 3 Jan van Brabant 1250–94 4 Melis Stoke 1310 5 Dirc Potter 1428
      - 2 **Chambers of rhetoric** 1450–1600
        2 Anna Bijns 1500 4 Cornelis Everaert 1550 6 Dirk Volkerszoon Coornhert 1522–90 9 Minor writers
      - 3 **Period of the Republic** 1600–1700
        1 Jacob Cats 1577–1660 2 Joost van den Vondel 1587–1679 3 Marie Tesselschade Visscher 1594–1649 4 Constantijn Huygens 1596–1687 5 Reyer Anslo 1626–69 6 Geraert Brandt 1626–85 7 Jan Antoniszoon van der Goes (Antonides) 1647–84 9 Minor writers
      - 4 **Poetic societies** 1700–1800
        1 Lucas Rotgans 1654–1710 2 Hubert Corneliszoon Poot 1689–1733 3 Arnold Hoogvliet 1687–1763 4 Sybrand Feitama 1694–1758 5 Willem van Haren 1710–68 6 Jacob Bellamy 1757–86 7 Hieronymus van Alphen 1746–1803 9 Minor writers
      - 5 **Modern period** 1800–
        1 Willem Bilderdijk 1756–1831 2 Jan Frederik Helmers 1767–1813 3 Cornelis Loots 1765–1834 4 Hendrik Tollens 1780–1856 5 Isaac da Costa 1798–1860 9 Minor writers
    - .312 Dutch drama
      - 3 **Period of the Republic** 1600–1700
        1 Gerbrand Adriaenszoon Bredero 1585–1618 2 Corneliszoon Hooft 1581–1647 3 Samuel Costa 1580–1650 4 Jan Vos 1620–67 6 Joachim Oudaan 1628–92 9 Other
      - 4 **Poetic societies** 1700–1800
        1 Pieter Langendijk 1683–1756 2 Andries Pels 3 Balthasar Huydecoper 1695–1778 4 Onno Zwier van Haren 1713–79 5 Jan Nomsz 1738–1803 9 Minor writers
      - 5 **Modern period** 1800–
        1 Samuel Iperuszoon Wiselius 1769–1845 2 Pieteri Theodoor Helvetius van den Bergh 1799–1873 3 Hendrik Jan Schimmel 1825–1906
    - .313 Dutch fiction
      - 4 **Poetic societies** 1700–1800
        1 Elisabeth Bekker Wolff 1738–1804 2 Agatha Deken 1742–1804 3 Rhijnvis Feith 1753–1824
      - 5 **Modern period** 1800–
        1 Adriaan Loosjes 1761–1818 2 Jacob Vosmaer 1783–1834 3 Jan Frederik Oltmans 1800–54 4 Jacob van Lennep 1802–68 6 Anna Louisa Geertruida Bosboom-Toussaint 1812–86
    - .314 Dutch essays
      - 4 **Poetic societies** 1700–1800
        Justus van Effen 1684–1735
      - 5 **Modern period** 1800–
        1 Johannes Henricus van der Palm 1763–1840 2 Reinier Cornelis Bakhuizen van den Brink 1810–65 3 Everhardus Johannes Potgieter 1808–75 4 Nicolaas Beets 1814–1903 5 Coenraad Busken Huet 1826–86
    - .317 Dutch satire and humor
      - 1 **Middle ages** 1200–1450
        Reinaert (van den vos Reinaerde) see 837.31
      - 4 **Poetic societies** 1700–1800
        Arend Simonszoon Fokke 1755–1812

839.318 Dutch miscellany
The subdivisions of 8 show the leading writers in other branches of knowledge
In classification, books ar placed with their subjects, theology, history, etc.
1 **Middle ages** 1200–1450
Jan van Boendale (Jan de Clerc) *Chronicles*, 1280–1365
4 **Poetic societies** 1700–1800
Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–73

.32 **Flemish literature**
Divide by form and period like 839.31 Dutch literature

.36 **Afrikaans**
Divide by form like 839.31 Dutch literature

.4 **Low German Platt Deutsch**

.5 **Scandinavian**

.6 **Old Norse Icelandic Faroese**

.7 **Swedish literature**

.71 Swedish poetry
.711 **Middle ages** 1200–1520
1 Nicolaus Hermanni 1391 2 Bishop Tomas 1443 3 Ericus Olai 1486 4 Ballads (Folkvisor)
.712 **Reformation** 1520–1640
1 Olaus Petri 1496–1552 2 Laurentius Petri 1499–1573
.713 **Age of Stjernhjelm** 1640–1740
1 Georg Stjernhjelm 1598–1672 2 Lars Johansson (Lucidor) 1640–74 3 Haquin Spegel 1645–1714 4 Israel Holmström 1660–1708 5 Gunno Eurelius Dahlstjerna 1661–1709 6 Johan Runius 1679–1713 7 Jacob Frese 1691–1729 8 Samuel von Triewald 1688–1743 9 Minor writers
.714 **Age of Dalin** 1740–80
1 Olof Carelius 1758 2 Olof von Dalin 1708–63 3 Hedvig Charlotta Nordenflycht 1718–63 4 Anders Odel 1718–73 5 Gustaf Filip Creutz 1729–85 6 Gustaf Fredrik Gyllenborg 1731–1808 7 Olof Bergklint 1733–1805 9 Minor writers
.715 **Age of Gustavus** 1780–1800
1 Karl Mikael Bellman 1740–1795 2 Johan Henrik Kellgren 1751–95 3 Bengt Lidner 1757–93 4 Johan Gabriel Oxenstjerna 1750–1818 5 Tomas Thorild 1759–1808 6 Anna Maria Lenngren 1754–1817 7 Karl Gustaf af Leopold 1756–1829 8 Frans Mikael Frazén 1772–1847 9 Minor writers
.716 **Modern period** 1800–
1 Per Henrik Ling 1776–1839 2 Johan Olof Wallin 1779–1839 3 Esaias Tegnér 1782–1846 4 Erik Johan Stagnelius 1793–1823 5 Per Daniel Amadeus Atterbom 1790–1855 6 Karl Jonas Ludwig Almqvist 1793–1866 7 Johan Ludwig Runeberg 1804–77 8 Karl Vilhelm Böttiger 1807–79 9 Minor writers

.72 Swedish drama
.722 **Reformation** 1520–1640
1 Johan Messenius 1579–1637 2 Magnus Olai Asteropherus –1647 3 Andreas Johannis Prytz 1590–1655
.723 **Age of Stjernhjelm** 1640–1740
Isak Börk –1701
.725 **Age of Gustavus** 1780–1800
1 Karl Israel Hallman 1732–1800 2 Gustaf 3 (king) 1746–92 3 Olof Kexél 1748–96 4 Karl Evallsson 1756–1806
.726 **Modern period** 1800–
1 Johan Börjesson 1790–1866 2 Bernhard von Beskow 1796–1868 3 August Teodor Blanche 1811–68 4 Johan Kristofer Jolin 1818–84 5 Frans Hedberg 1828–1908 6 Per Johan Edvard Bäckström 1841–86

.73 Swedish fiction
.734 **Age of Dalin** 1740–1780
1 Jakob Henrik Mörk 1714–63 2 Jakob Vallenberg 1746–78
.736 **Modern period** 1800–
1 Sofia Margareta von Knorring 1797–1848 2 Magnus Jakob Crusenstolpe 1795–1865 3 Fredrika Bremer 1801–65 4 Karl Anton Wetterbergh (Onkel Adam) 1804–89 5 Emilie Flygare Carlén 1807–92 6 Zakris Topelius 1818–98 7 Viktor Rydberg 1829–95 9 Minor writers

839.74 Swedish essays
.746 **Modern period** 1800–
1 Benjamin Karl Henrik Höijer 1767–1812 2 Lorenzo Hammarsköld 1785–1827 3 Bernhard Elis Malmström 1816–65 4 Karl Julius Lénström 1811–93 5 Gustaf Håkan Jordan Ljunggren 1823–1905 6 Karl Rupert Nyblom 1832–1907

.77 Swedish satire and humor
.77 **Modern period** 1800–
1 Johan Anders Wadman 1777–1837 2 Erik Sjöberg (Vitalis) 1794–1828 3 Kristian Erik Fahlcrantz 1790–1866 4 Vilhelm August Detlof von Braun 1813–60 5 Gunnar Wennerberg 1817–1901

.78 Swedish miscellany
The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books ar placed with their subjects, theology, history, etc.
.781 **Middle ages** 1200–1520
Canon Mattias, *Bible translation*, –1350; Peder Månsson, *Encyclopedia*, –1534
.782 **Reformation** 1520–1640
1 Peder Andersson Svart, *History*, –1562 2 Erik Göransson Tegel, *History*, 1580–1636 3 Ægidius Girs, *History*, 1580–1639 4 Gustavus Adolphus (king), *History*, 1594–1632
.783 **Age of Stjernhjelm** 1640–1740
1 Olof Rudbeck, *Medicin*, 1630–1702 2 Urban Hjärne 1641–1724 3 Johan Peringskjöld, *History*, 1654–1720 4 Anders Rydelius, *Philosophy*, 1671–1738 5 Anders Celsius, *Astronomy*, 1701–44 6 Emanuel Svedenborg, *Theology*, 1688–1772
.784 **Age of Dalin** 1740–1780
1 Karl Gustaf Tessin, *History*, 1695–1770 2 Karl von Linné, *Botany*, 1707–78 3 Johan Ihre, *Philology*, 1707–80 4 Sven Lagerbring, *History*, 1707–87 5 Anders Johan von Höpken, *History*, 1712–89 6 Olof Celsius, *History*, 1716–94 7 Anders af Botin, *History*, 1724–90 8 Torbern Olof Bergman, *Chemistry*, 1735–84 Karl Vilhelm Scheele, *Chemistry*, 1742–86
.786 **Modern period** 1800–
1 Erik Gustaf Geijer, *History*, 1783–1847 2 Anders Magnus Strinnholm, *History*, 1786–1862 3 Anders Fryxell, *History*, 1795–1881 4 Frederik Ferdinand Carlson, *History*, 1811–87

.8 **Danish and Norwegian literature**

.81 **Danish literature**

.811 Danish poetry
1 **Middle ages** 1100–1500
1 Anders Sunesen 2 Ballads (Kjæmpeviser)
2 **Reformation** 1500–1560
Hans Tavsen 1494–1561
3 **Learned period** 1560–1700
1 Anders Arrebo 1587–1637 2 Anders Bording 1619–77 3 Peder Syv 1631–1702 4 Thomas Kingo 1634–1703 7 Sören Terkelsen 1661 8 Jacob Vorm 1642–93
4 **Age of Holberg** 1700–1750
1 Jörgen Sorterup 1662–1723 2 Töger Reenberg 1656–1742 3 Kristian Falster 1690–1752 4 Hans Adolph Brorson 1694–1764 5 Ambrosius Stub 1705–58 6 Kristian Frederik Wadskjær 1712–79
5 **Period of enlightenment** 1750–1800
1 Kristian Braunmann Tullin 1728–65 2 Johannes Evald 1743–81 4 Edvard Storm 1749–94 5 Kristen Henriksen Pram 1756–1821 6 Jens Baggesen 1764–1826 7 Knud Lyne Rahbek 1760–1830 8 Malte Konrad Bruun 1775–1826 9 Minor writers
6 **Modern period** 1800–
1 Adam Gottlob Oehlenschlager 1779–1850 2 Bernhard Severin Ingemann 1789–1862 3 Nicolai Frederik Severin Grundtvig 1783–1872 4 Johannes Carsten Hauch 1790–1871 6 Ludvig Bödtcher 1793–1874 7 Frederik Paludan-Müller 1809–76 8 Carl Ploug 1813–94 9 Minor writers

839.812 Danish drama

3 **Learned period** 1560–1700
1 Hieronimus Justesen Rauch 1539–1607 2 Hans Kristensen Sthen 1544–1603 3 Peder Jensen Hegelund 1542–1614 4 Hans Thomsen Stege –1628 5 Jens Lönberg 1663–1700

4 **Age of Holberg** 1700–1750
1 **Ludvig Holberg** 1684–1754

5 **Period of enlightenment** 1750–1800
1 Charlotte Dorothea Biehl 1731–88 3 Ole Johan Samsöe 1759–96 4 Enevold Falsen 1755–1808 5 Thomas Thaarup 1749–1821 6 Kristian Levin Sander 1756–1819 7 Olaf Kristian Olufsen 1764–1827 8 Peter Andreas Heiberg 1758–1841 9 Minor writers

6 **Modern period** 1800–
1 Casper Johannes Boye 1791–1853 2 Johan Ludvig Heiberg 1791–1860 3 Henrik Hertz 1798–1870 4 Thomas Overskou 1798–1873 5 Christian Knud Frederik Molbech 1821–88

.813 Danish fiction

6 **Modern period** 1800–
1 Thomasine Christine Gyllembourg-Ehrensvärd 1773–1856 2 Steen Steensen Blicher 1782–1848 3 Christian Winther 1796–1876 4 **Hans Christian Andersen** 1805–75 5 Meyer Aaron Goldschmidt 1819–87 6 Holger Drachmann 1846–1908

.814 Danish essays

5 **Period of enlightenment** 1750–1800
Rasmus Nyerup 1759–1829

6 **Modern period** 1800–
1 Niels Mathias Petersen 1781–1862 2 Sören Aaby Kierkegaard 1813–55 6 Georg Morris Cohen Brandes 1842–

.817 Danish satire and humor

5 **Period of enlightenment** 1750–1800
1 Peder Magnus Trojel 1743–96 2 Peder Kofoed Trojel 1754–84 3 Thomas Kristoffer Bruun 1750–1834

.818 Danish miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books ar placed with their subjects, theology, history, etc.

1 **Middle ages** 1100–1500
1 Saxo (Longus) Grammaticus, *History*, –1208 2 Svend Aagesen, *History*

2 **Reformation** 1500–1560
1 Kristiern Pedersen (Father of Danish literature) 1480–1554 2 Povel Eliesen, *Sermons*, 1480– 3 Hans Mikkelsen, *Bible translation*, –1532 4 Peder Plade (Palladius) 1503–60 5 Henrik Smith, *Medicin*, –1563

3 **Learned period** 1560–1700
History: Hans Svaning 1508–1584 Anders Sörensen Vedel 1542–1616 Arild Hvitfeld 1549–1609 Klaus Lyskander 1558–1623 Ole Worm 1588–1654 Peder Resen 1625–88
Theology: Niels Hemmingsen 1513–1600 Holger Rosenkrantz 1574–1642 Jesper Rasmussen Brochmand 1585–1652
Science: Tyge Brahe, *Astronomy*, 1546–1601 Kaspar Bartholin, *Medicin*, 1585–1629 Thomas Bartholin, *Anatomy*, 1616–80 Ole Borch, *Medicin*, 1626–90 Niels Stensen, *Anatomy*, 1638–86 Ole Römer, *Astronomy*, 1644–1710

4 **Age of Holberg** 1700–1750
1 Erik Pontoppidan, *History*, 1698–1764 2 Jacob Langebek, *History*, 1710–75 3 Frederik Kristian Eilschov, *Education and Philology*, 1725–50 5 Peder Frederik Suhm, *History*, 1728–98

.82 Norwegian literature

Subdivided when needed by form and period like 839.81 Danish literature

.8216 **Modern Norwegian poetry** 1800–
Henrik Wergeland 1808–45

.8226 **Modern Norwegian drama** 1800–
Henrik Ibsen 1828–1906

.8236 **Modern Norwegian fiction** 1800–
Björnstjerne Björnson 1832–1910

.8246 **Modern Norwegian essays** 1800–
Johan Sebastian Cammermeyer Welhaven 1807–73

.9 Gothic

840 French literature

840.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures, and addresses on French literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

841 French poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of French poetry

.1 Early French 842–1400

.11 **Chanson de Roland** *Chanson de geste*
.12 Wace, Robert
.13 Marie de France
.14 Chrestien de Troyes –1191
.15 Quesnes de Bethune –1228
.16 Thibaut 4, comte de Champagne 1201–53
.17 Rutebeuf 1230–
.18 **Roman de la rose**
Guillaume de Loris, 1195–1260 Jean de Meung, 1280–1320
.19 Minor poets

.2 Transition period 1400–1500

.21 Chartier, Alain 1386–1458
.22 Orléans, Charles duc d' 1391–1465
.23 Coquillart, Guillaume 1421–1510
.24 Baude, Henri 1430–95
.25 Villon, François 1431–85
.26
.27
.28
.29 Minor poets

.3 Renaissance 1500–1600

.31 Daurat, Jean 1510–88
.32 Du Bellay, Joachim 1524–60
.33 Belleau, Remy 1528–77
.34 Ronsard, Pierre de 1524–85
.35 Thiard, Pontus de 1521–1605
.36 Baïf, Jean Antoine de 1532–89
.37 Saluste du Bartas, Guillaume de 1544–90
.38 Desportes, Philippe 1546–1606
.39 Minor poets

.4 Classic period 1600–1715

.41 Malherbe, François de 1555–1628
.42 Maynard, François 1582–1646
.43 Racan, Honorat de Bueil, marquis de 1589–1670
.44 Chapelain, Jean 1595–1674
.45 **La Fontaine, Jean de** 1621–95
.46 Deshoulières, Antoinette (du Ligier de la Garde), Madame 1637–94
.47 Chaulieu, Guillaume Amfrye de 1639–1720
.48
.49 Minor poets

841.5	**18th century 1715–89**	
.51	Rousseau, Jean Baptiste	1670–1741
.52	Racine, Louis	1692–1763
.53	Pompignan, Jean Jacques de Franc, marquis de	1709–84
.54	Delille, Jacques	1738–1813
.55	Roucher, Jean Antoine	1745–94
.56	Chénier, André Marie de	1762–94
.57	Parny, Evariste Désiré Desforges, vicomte de	1753–1814
.58		
.59	Minor poets	
.6	**Revolution and empire 1789–1815**	
61	Lebrun, Ponce Denis Écouchard	1729–1807
.62	Fontanes, Louis, marquis de	1757–1821
.63	Parseval Grandmaison, François Auguste	1759–1834
.64	Luce de Lancival, Jean Charles Julien	1764–1810
.65	Désaugiers, Marc Antoine Madeleine	1772–1827
.66	Campenon, François Nicolas Vincent	1772–1843
.67	Millevoye, Charles Hubert	1782–1816
.68		
.69	Minor poets	
.7	**Constitutional monarchy 1815–48**	
.71	**Béranger, Pierre Jean de**	1780–1857
.72	Delavigne, Jean François Casimir	1793–1843 See 842.72
.73	Deschamps, Émile	1791–1871
.74	Lamartine, Alphonse Marie Louis de Prat de	1792–1869
.75	Reboul, Jean	1796–1864
.76	Vigny, Alfred Victor, comte de	1799–1863 See 842.75
.77	Musset, Louis Charles Alfred de	1810–57 See 842.76
.78	**Hugo, Victor Marie, comte** See also 842.78 and 843.78	1802–85
79	Minor poets	
.8	**Later 19th century 1848–1900**	
.81	Laprade, Pierre Marin Victor Richard de	1812–83
.82	Dupont, Pierre	1821–70
.83	Banville, Théodore Faullain de	1820–91
.84	Sully-Prudhomme, René François Armand	1839–1907
.85	Coppée, Francis Édouard Joachim	1842–1908 See 842.84
.86	Deroulède, Paul	1846–1914
.87		
.88		
.89	Minor poets	
.91	**Early 20th century 1901–**	

842 French drama

.1	**Early French 842–1400**	
.11	Mysteries and miracles	
.12	Adam de la Halle	1240–86
.13	Bodel, Jean	
.14		
.15		
.16		
.17		
.18		
.19	Minor dramatists	

842.2	**Transition period 1400–1500**	
.21	Gresban, Arnoul	–1493
.22	Michel, Jean	1480–1544
.23	Gringoire, Pierre	
.24		
.25		
.26		
.27		
.28		
.29	Minor dramatists	
.3	**Renaissance 1500–1600**	
.31	Le Coq, Thomas	
.32	Baïf, Lazare de	1530–55
.33	La Peruse, Jean Bastier de	1532–73
.34	Jodelle, Étienne	1538–70
.35	Grévin, Jacques	1540–1608
.36	La Taille, Jean de	1545–1601
.37	Garnier, Robert	1550–1612
.38	Larivey, Pierre de	
.39	Minor dramatists	
.4	**Classic period 1600–1715**	
.41	**Corneille, Pierre**	1606–84
.42	**Molière, Jean Baptiste Poquelin,** *called*	1622–73
.43	Corneille, Thomas	1625–1709
.44	Boursault, Edme	1638–1701
.45	**Racine, Jean**	1639–99
.46	Brueys, David Augustin de	1640–1723
.47	Dufresny, Charles Rivière	1648–1724
.48	Baron, Michel Boyron, *called*	1653–1729
.49	Minor dramatists	
.5	**18th century 1715–89**	
.51	La Motte, Antoine Houdart de	1672–1731
.52	Crébillon, Prosper Jolyot de	1674–1762
.53	Destouches, Philippe Nericault	1680–1754
.54	Marivaux, Pierre Carlet de Chamblain de	1688–1763 See 843.52
.55	Piron, Alexis	1689–1773
.56	**Voltaire, François Marie Arouet de**	1694–1778 See 843.54
.57	Sédaine, Michel Jean	1719–97
.58	Beaumarchais, Pierre Augustin Caron de	1732–99
.59	Minor dramatists	
.6	**Revolution and empire 1789–1815**	
.61	Ducis, Jean François	1733–1816
.62	Collin-Harleville, Jean François	1735–1806
.63	La Harpe, Jean François de	1739–1803 See 842.61
.64	Fabre d'Églantine, Philippe François Nazaire	1755–94
.65	Andrieux, François Guillaume Jean Stanislas	1759–1833
.66	Chenier, Marie Joseph	1764–1811
.67	Picard, Louis Benoît	1769–1828
68	Lemercier, Louis Jean Népomucène	1771–1840
.69	Minor dramatists	

842.7	**Constitutional monarchy 1815–48**		
.71	Soumet, Alexandre	1788–1845	
.72	Delavigne, Jean François Casimir	1793–1843	See 841 72
.73	Scribe, Augustin Eugène	1791–1861	
.74	Ancelot, Jacques Arsène François Polycarpe	1794–1864	
.75	Vigny, Alfred Victor, comte de	1799–1863	See 841.76
.76	Musset, Louis Charles Alfred de	1810–57	See 841.77
.77	**Dumas, Alexandre, the elder**	1806–70	See 843.76
.78	**Hugo, Victor Marie, comte**	1802–85	
	See also 841.78 and 843.78		
.79	Minor dramatists		
.8	**Later 19th century 1848–1900**		
.81	Labiche, Eugène Marin	1815–88	
.82	Ponsard, François	1824–67	
.83	Augier, Guillaume Victor Émile	1822–89	
.84	Dumas, Alexandre, fils	1824–95	
.85	Bornier, Henri de	1825–1901	
.86	Sardou, Victorien	1831–1908	
.87	Pailleron, Édouard	1834–99	
.88	Coppée, Francis Édouard Joachim	1842–1908	See 841.85
.89	Minor dramatists		
.91	**Early 20th century 1901–**		

843 French fiction

.2	**Transition period 1400–1500**		
.21	Christine de Pisan	1363–1431	
.22	Jean de Tuim		
.23	La Sale, Antoine de	1398–1462	
.24	Chastelain, Georges	1403–75	
.25			
.26			
.27			
.28			
.29	Minor writers		
.3	**Renaissance 1500–1600**		
.31	Marguerite de Navarre	1492–1549	
.32	Desperriers, Bonaventure	1500–44	
.33	Herberay, Nicolas d'	–1552	
.34	Du Fail, Noël	–1585	
.35	Bouchet, Guillaume	1526–1606	
.36	Beroalde de Verville, François	1558–1612	
.37			
.38			
.39	Minor writers		
.4	**Classic period 1600–1715**		
.41	Urfé, Honoré d'	1568–1625	
.42	Gomberville, Marin Le Roy de	1600–47	
.43	La Calprenède, Gauthier de Costes de	1602–63	
.44	Scudéry, Georges de	1601–67	
.45	Scudéry, Madeleine de	1607–1701	
.46	Cyrano de Bergerac, Savinien	1620–55	
.47	Perrault, Charles	1628–1703	
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de	1634–93	
.49	Minor writers		

843.5	**18th century 1715–89**		
.51	Le Sage, Alain René	1668–1747	
.52	Marivaux, Pierre Carlet de Chamblain de	1688–1763	See 842.54
.53	Prévost d'Exiles, Antoine François	1697–1763	
.54	**Voltaire, François Marie Arouet de**	1694–1778	See 842.56
.55	Crébillon, Claude Prosper Jolyot de, fils	1707–77	
.56	**Rousseau, Jean Jacques**	1712–78	
.57	Restif de la Bretonne, Nicolas Edme	1734–1806	
.58	Florian, Jean Pierre Claris de	1755–94	
.59	Minor writers		
.6	**Revolution and empire 1789–1815**		
.61	St Pierre, Jacques Henri Bernardin de	1737–1814	
.62	**Staël Holstein, Anne Louise Germaine (Necker), baronne de**	1766–1817	
.63	Constant de Rebecque, Henri Benjamin	1767–1830	
.64	Maistre, Xavier de	1763–1852	
.65	Chateaubriand, François Auguste René, vicomte de	1768–1848	
.66			
.67			
.68			
.69	Minor writers		
.7	**Constitutional monarchy 1815–48**		
.71	Beyle, Marie Henri [de Stendhal]	1783–1842	
.72	Nodier, Charles	1790–1844	
.73	**Balzac, Honoré de**	1799–1850	
.74	Sue, Marie Joseph, *called* Eugène	1804–57	
.75	Souvestre, Émile	1806–54	
.76	**Dumas, Alexandre, the elder**	1806–70	See 842 77
.77	Gautier, Théophile	1811–72	
.78	**Hugo, Victor Marie, comte**	1802–85	
	See also 841.78 and 842.78		
.79	Minor writers		
.8	**Later 19th century 1848–1900**		
.81	Mérimée, Prosper	1803–70	
.82	**Dudevant, Amantine Lucile Aurore Dupin [George Sand]**	1804–76	
.83	Feuillet, Octave	1822–90	
.84	Flaubert, Gustave	1821–81	
.85	Erckmann-Chatrian { Erckmann, Émile / Chatrian, Alexandre	1822–99 / 1826–90	
.86	About, Edmond François Valentin	1828–85	
.87	Cherbuliez, Victor	1829–99	
.88	Daudet, Alphonse	1840–97	
.89	Minor writers		
.91	**Early 20th century 1901–**		

844 French essays

.3	**Renaissance 1500–1600**		
.31	**Montaigne, Michel Eyquem de**	1533–92	
.4	**Classic period 1600–1715**		
.41	Du Vair, Guillaume	1556–1621	
.42	Saint-Évremond, Charles de Marguetel de Saint-Denis de	1613–1703	

844.5 **18th century 1715–89**
.51 Fontenelle, Bernard le Bovier de 1657–1757
.52 Montesquieu, Charles le Secondat, baron de 1689–1755
.53 Alembert, Jean le Rond d' 1717–83
.6 **Revolution and empire 1789–1815**
.61 La Harpe, Jean François de 1739–1803 See 842.63
.62 Joubert, Joseph 1754–1824
.63 Courier de Méré, Paul Louis 1772–1825
.64 Senancour, Étienne Pivert de 1770–1846
.7 **Constitutional monarchy 1815–48**
.71 La Mennais, Hugues Félicité Robert de 1782–1854
.72 Villemain, Abel François 1790–1870
.73 Planche, Jean Baptiste Gustave 1808–57
.74 **Sainte Beuve, Charles Augustin** 1804–69
.75 Saint-Marc Girardin 1801–73
.76 Janin, Jules Gabriel 1804–74
.77 Nisard, Jean Marie Napoléon Désiré 1806–88
.8 **Later 19th century 1848–1900**
.81 Quinet, Edgar 1803–75
.82 Renan, Ernest 1823–92
.83 Taine, Hippolyte Adolphe 1828–93
.91 **Early 20th century 1901–**

845 French oratory Subdivided by periods like 841

846 French letters Subdivided by periods like 841

847 French satire and humor
.1 **Early French 842–1400**
.11 Guyot de Provins
.12 *Roman du Renard* See 837.31 and 839.3171
.13 Deschamps, Eustache 1320–1400
.3 **Renaissance 1500–1600**
.31 Marot, Clément 1495–1544
.32 **Rabelais, François** 1495–1553
.33 *La Satyre Ménippée* 1594
.34 Aubigné, Théodore Agrippa d' 1550–1630
.35 Regnier, Mathurin 1573–1613
.4 **Classic period 1600–1715**
.41 Viau, Théophile de 1590–1626
.42 Saint Amant, Marc Antoine Gérard 1594–1661
.43 Scarron, Paul 1610–60
.44 Benserade, Isaac de 1612–91
.45 Furetière, Antoine 1620–88
.46 **Boileau Despréaux, Nicolas** 1636–1711
.47 Regnard, Jean François 1655–1709
.5 **18th century 1715–89**
.51 Gresset, Jean Baptiste Louis 1709–77
.52 Gilbert, Nicolas Joseph Laurent 1751–80
.7 **Constitutional monarchy 1815–48**
.71 Barthélemy, August Marseille 1796–1867
.72 Barbier, Henri Auguste 1805–82

848 French miscellany Subdivided by periods like 841

849 Provençal literature

.1 **Provençal poetry**
.11 1st period 900–1100
Poetry in hands of clergy. No folk poetry preservd. Form mainly epic. Language not yet fixt. Country under rule of counts, nominally subject to emperor, really independent til 1486, then reunited to France
.111 Epic poetry
Boethius
.112 Lyric poetry
.119 Minor poetry Didactic
.12 Golden age 1100–1300
Poets mainly knights, but after 1250 almost exclusivly burghers. Lyric most important
.121 Romances of chivalry
Girart de Rossilho
.122 Historical poetry
Croisade contre les Albigeois
.123 Romans d'aventures
Flamenca
.124 Lyric poetry
.125 Bernart de Ventadorn, flourisht about 1140–95
.126 Born, Bertran de " " 1180–95
.127 Arnaut, Daniel " " 1180–1200
.128 Borneill, Guiraut de " " 1175–1220
.129 Minor poetry
Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets ar the real Troubadours
.13 Aftermath 1300–1500
Downfall of language and literature owing to lack of content and to political and social causes, specially the crusade against the Albigenses
.131 Poets of school of Toulouse
Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial, a craft. Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, chancellor of 'Consistory de la gaya sciensa' establisht at Toulouse 1324 First prize a golden violet. When in danger of perishing, consistory revived in 1484 and poetic exercises styled 'Jeux floraux'
.132 La Noble Leyczon
Religious poetry of Waldenses
.139 Minor poetry
.14 Decadence 1500–
Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852
.141 Goudouli, Pierre de 1579–1649
.142 Despourrins, Cyprien 1698–1755
.143 Jasmin, Jacques 1798–1864
.144 Roumanille, Joseph 1818–91
.145 Aubanel, Jos. Marie J. Baptiste Théodore 1829–86
.146 Mistral, Frédéric 1830–1914
.149 Minor poetry

849.9 Catalan literature

.91 Catalan poetry

.911 1st period 1200–1350

Catalonia before 1137 ruled by French counts, then united to Aragon. Language is closely allied to Provençal, in which first poets wrote. Mss scatterd; few as yet printed. Literature begins with James I (1213–76) who made Catalan the state language

For Ramon Muntaner see 849.9813

1 Raimon Lull 1225–1315 2 Febler 1250 9 Minor poets

.912 2d period 1350–1450

Imitation of Neo Provençal, French and Italian, specially of Dante, Petrarch and Boccaccio. Some flashes of originality. Fra Rocaberti. Imitation of Dante

.913 Age of perfection 1450–

From 16th century, Catalan literature merged in Spanish, tho some writers still employ idiom, e. g. 'Balaguer'

1 March, Ausias –1460, greatest of Catalan poets 2 Fenolla, Bernard 3 Jacme Roig (satiric) 4 Farrer 5 Serafi 6 Pujol 7 Garcia 9 Minor poets

.93 Catalan fiction

.933 Age of perfection 1450–

Joanet Martorel –1400. *Tirant lo Blanch*, a chivalric romance

.98 Miscellany

.981 1st period 1200–1350

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner

1 James I (The Conqueror) 1213–76 2 Desclot, Bernardo 3 Muntaner, Ramon 1265–1340 4 Ximenes 9 Minor authors

.982 2d period 1350–1450

Prose resists foren influences better than poetry. Many philosofic and theologic writings beside historical works

1 Tomich 2 Turell 9 Minor writers

850 Italian literature

850.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on Italian literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

851 Italian poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of Italian poetry

.1 Early Italian Age of Dante –1375

To deth of Boccaccio, 1375

.11	Protonotario, Stefano	–1250
.12	Arezzo, Guittone d'	–1294
.13	Guincelli, Guido	–1276
.14	Cavalcanti, Guido	1260–1300
.15	**Alighieri, Dante**	1265–1321
.16	Pistoia, Cino da	1270–1336
.17	Uberti, Fazio degli	–1369
.18	**Petrarca, Francesco**	1304–74
.19	Minor poets	

.2 Period of classic learning 1375–1492

From deth of Boccaccio, 1375, to deth of Lorenzo il Magnifico, 1492

.21	Frezzi, Federigo	–1416
.22	Bojardo, Matteo	1430–94
.23	**Medici, Lorenzo dei** (Il Magnifico)	1448–92
.24	**Poliziano, Angelo**	1454–94
.25	Benivieni, Girolamo	1453–1542 See 852.22
.26	Sannazzaro, Jacopo	1458–1530
.29	Minor poets	

.3 Age of Leo the Tenth 1492–1542

From deth of Lorenzo il Magnifico, 1492, to convocation of council of Trent, 1542

.31	Bembo, Pietro	1470–1547
.32	**Ariosto, Lodovico**	1474–1533
.33	Rucellai, Giovanni	1475–1526
.34	Molza, Francesco	1483–1544 See 853.33
.35	Tasso, Bernardo	1493–1569
.36	Alamanni, Luigi	1495–1556
.37	Guidiccioni, Giovanni	1500–41
.38	Casa, Giovanni della	1503–56
.39	Minor poets	

.4 Later 16th century 1542–85

From convocation of council of Trent, 1542, to pontificate of Sixtus 5, 1585

.41	Costanzo, Angelo di	1507–91
.42	Rota, Bernardino	1509–75
.43	Tansillo, Luigi	1510–68
.44	Magno, Celio	1536–1602
.45	Guarini, Giovambattista	1537–1612
.46	**Tasso, Torquato**	1544–95
.47	Baldi, Bernardino	1553–1617
.49	Minor poets	

851.5 **Period of decline 1585–1748**
From pontificate of Sixtus 5, 1585–90, to peace of Aix-la-Chapelle, 1748
.51 Chiabrera, Gabriello 1552–1637
52 Marini, Giovambattista 1569–1625
.53 Testi, Fulvio 1593–1646
54 Filicaja, Vincenzo 1642–1707
55 Guidi, Alessandro 1650–1712
56 Manfredi, Eustachio 1674-1738
.57 Frugoni, Carlo Innocenzo 1692–1768
58 Algarotti, Francesco 1712–64
.59 Minor poets
.6 **Period of renovation 1748–1814**
From peace of Aix-la-Chapelle, 1748, to congress of Vienna, 1814
.61 Paradisi, Agostino 1736–83
.62 Mascheroni, Lorenzo 1750–1800
.63 Pindemonte, Ippolito 1753-1828
.64 Monti, Vincenzo 1754–1828
.65 Cassi, Francesco 1778–1846
.66 Foscolo, Ugo 1779–1827
.67 Arici, Cesare 1782–1836
.68 Sestini, Bartolommeo 1792–1822
.69 Minor poets
.7 **Early 19th century 1814–59**
From congress of Vienna, 1814, to war of Independence, 1859
.71 Berchet, Giovanni 1783–1851
.72 Rossetti, Gabriello 1783–1854
.73 Manzoni, Alessandro 1785–1873 See 853.72
.74 Marchetti, Giovanni 1790–1852
.75 Leopardi, Giacomo 1798–1837
.76 Carrer, Luigi 1801–50
.77 Regaldi, Giuseppe 1809–83
.78 Prati, Giovanni 1815–84
.79 Minor poets
.8 **Later 19th century 1859–1900**
From war of Independence, 1859, to 1900
.81 Aleardi, Aleardo 1810–78
.82 Zanella, Giacomo 1820–88
83 Gnoli, Domenico 1838–
.84 Carducci, Giosuè 1835-1907
.85 Fogazzaro, Antonio 1842–1911
.86 Rapisardi, Mario 1844–
.87 Guerrini, Olindo 1845–
.88
89 Minor poets
.91 **Early 20th century 1901–**

852 Italian drama

.1 **Early Italian Age of Dante –1375**
.2 **Period of classic learning 1375–1492**
.21 Belcari, Feo 1410–84
.22 Poliziano, Angelo 1454–94 See 851.24
.29 Minor dramatists

852.3 **Age of Leo the Tenth 1492–1542**
.31 Machiavelli, Niccolò 1469–1527 See also 854.31
.32 Dovizi, Bernardo (Cardinal Bibbiena) 1470–1520
.33 Trissino, Gian Giorgio 1478–1550
.34 Aretino, Pietro 1492–1556
.35 Ambra, Francesco d' –1558
.39 Minor dramatists
.4 **Later 16th century 1542–85**
.41 Speroni, Sperone 1500–88
.42 Giraldi, G. B. Cinzio 1504–73 See also 853.44
.43 Cecchi, Giovanni Maria 1517–87
.44 Asinari Federigo 1527–76
.45 Porta, Giovambattista della 1538–1615
.49 Minor dramatists
.5 **Period of decline 1585–1748**
.51 Buonarroti, Michelagniolo jr 1564–1646
.52 Rinuccini, Ottavio 1565–1622
.53 Andreini, Giovambattista 1578–1650
.54 Gigli, Girolamo 1660–1722
.55 Zeno, Apostolo 1669–1750
.56 Maffei, Scipione 1675–1755
.57 Trapassi, Pietro (Metastasio) 1698–1782
.59 Minor dramatists
.6 **Period of renovation 1748–1814**
For Manzoni, see 851.73 and 853.72
.61 **Goldoni, Carlo** 1707–73
.62 Gozzi, Carlo 1722–1806
.63 Capacelli Albergati, Francesco 1728–1804
.64 **Alfieri, Vittorio** 1749–1803
.65 Nota, Alberto 1775–1847
.66 Biondi, Luigi 1776–1839
.67 Benedetti, Francesco 1785–1821
.69 Minor dramatists
.7 **Early 19th century 1814–59**
.71 Niccolini, Giovambattista 1782–1861
.72 Pellico, Silvio 1788–1854
.73 Giacometti, Paolo 1816–81
.74 Gherardi del Testa, Tommaso 1818–82
.75 Ferrari, Paolo 1822–89
.79 Minor dramatists
.8 **Later 19th century 1859–1900**
.81 Bersezio, Vittorio 1830–1900
.82 Cossa, Pietro 1833–82
.83 Carrera, Valentino 1834–95
.84 Marenco, Leopoldo 1831–99
.85 Cavallotti, Felice 1842–98
.86 Torelli, Achille 1844–
.87
.88
.89 Minor dramatists
.91 **Early 20th century 1901–**

853 Italian fiction

.1	**Early Italian Age of Dante**	–1375	
.11	" Cento Novelle Antiche " (Gualteruzzi's collection)		
.12	Barberino, Francesco da	1264–1348	
.13	Pisa, Guido da	–1350	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–75	
.19	Minor writers		
.2	**Period of classic learning**	1375–1492	
.21	Sacchetti, Franco	–1400	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423–97	
.24	Mangabotti, Andrea dei		
.25	Prato, Giovanni da		
.29	Minor writers		
.3	**Age of Leo the Tenth**	1492–1542	
.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561	
.33	Molza, Francesco	1483–1544	See also 851.34
.34	Firenzuola, Agnolo	1493–1548	
.39	Minor writers		
.4	**Later 16th century**	1542–85	
.41	Grazzini, Antonfrancesco (Lasca)	1503–83	
.42	Doni, Antonfrancesco	1513–74	
.43	Erizzo, Sebastiano	1525–85	
.44	Giraldi, G. B. Cinzio	1504–73	See also 852.42
.45	Parabosco, Girolamo	–1560	
.49	Minor writers		
.5	**Period of decline**	1585–1748	
.6	**Period of renovation**	1748–1814	
.7	**Early 19th century**	1814–59	
.71	Rosini, Giovanni	1776–1855	
.72	**Manzoni, Alessandro**	1785–1873	See also 851.73
.73	Grossi, Tommaso	1791–1853	
.74	Guerrazzi, Francesco Domenico	1804–73	
.75	Bresciani, Antonio	1798–1862	
.76	Cantù, Cesare	1807–95	
.77	Carcano, Giulio	1812–83	
.78	Azeglio, Massimo d'	1800–66	
.79	Minor writers		
.8	**Later 19th century**	1859–1900	
.81	Castellazzo, Luigi	1827–90	
.82	Barrili, Anton Giulio	1836–1908	
.83	Capuana, Luigi	1839–1917	
.84	Verga, Giovanni	1840–	
.85	Faldella, Giovanni	1846–	
.86	Farina, Salvatore	1846–	
.87	Giovagnoli, Raffaele	1838–	
.88	Serao, Matilde	1856–	
.89	Minor writers		
.91	**Early 20th century**	1901–	

854 Italian essays

.1	**Early Italian Age of Dante**	–1375	
.11	Cavalca, Fra Domenico	–1342	
.12	Passavanti, Fra Jacopo	–1357	
.2	**Period of classic learning**	1375–1492	
.21	Alberti, Leone Battista	1404–72	
.22	Palmieri, Matteo	1405–75	
.23	Bisticci, Vespasiano da	1421–98	
.24	Collenuccio, Pandolfo	–1504	
.25	Vinci, Leonardo da	1452–1519	
.29	Minor essayists		
.3	**Age of Leo the Tenth**	1492–1542	
.31	Machiavelli, Niccolò	1469–1527	See also 852.31
.32	Nardi, Jacopo	1476–1555	
.33	Castiglione, Baldassare	1478–1529	
.34	Guicciardini, Francesco	1482–1540	
.35	Giannotti, Donato	1494–1573	
.36	Giambullari, Pier Francesco	1495–1555	
.37	Gelli, Giovambattista	1498–1563	
.38	Varchi, Benedetto	1503–66	
.39	Minor essayists		
.4	**Later 16th century**	1542–85	
.41	Castelvetro, Ludovico	1505–71	
.42	Piccolomini, Alessandro	1508–78	
.43	Borghini, Vincenzo	1515–80	
.44	Davanzati, Bernardo	1529–1606	
.45	Salviati, Leonardo	1540–89	
.46	Ammirato, Scipione	1531–1601	
.47	Paruta, Paolo	1540–98	
.48	Botero, Giovanni	1540–1617	
.49	Minor essayists		
.5	**Period of decline**	1585–1748	
.51	Sarpi, Paolo	1550–1623	
.52	Galilei, Galileo	1564–1642	
.53	Bartoli, Daniele	1608–85	
.54	Dati, Carlo	1619–75	
.55	Gravina, Giovanni Vincenzo	1664–1718	
.56	Muratori, Ludovico Antonio	1672–1750	
.57	Giannone, Pietro	1676–1748	
.58	Zanotti, Francesco Maria	1692–1777	
.59	Minor essayists		
.6	**Period of renovation**	1748–1814	
.61	Bettinelli, Saverio	1718–1808	
.62	Denina, Carlo	1730–1813	
.63	Tiraboschi, Girolamo	1731–94	
.64	Lanzi, Luigi	1732–1810	
.65	Becca ia, Cesare	1735–93	
.66	Filangeri, Gaetano	1752–88	
.67	Cesari, Antonio	1760–1828	
.68	Perticari, Giulio	1779–1822	
.69	Minor essayists		

854.7 **Early 19th century** 1814–59
- .71 Costa, Paolo 1771–1836
- .72 Giordani, Pietro 1774–1848
- .73 Troya, Carlo 1785–1859
- .74 Balbo, Cesare 1789–1853
- .75 Capponi, Gino 1792–1878
- .76 Mamiani della Rovere, Terenzio 1800–85
- .77 Gioberti, Vincenzo 1801–53
- .78 Tommaséo, Niccolò 1802–74
- .79 Minor essayists

.8 **Later 19th century** 1859–1900
- .81 Sanctis, Francesco de 1818–83
- .82 Bonghi, Ruggiero 1827–95
- .83 Conti, Augusto 1822–1905
- .84 Villari, Pasquale 1827–1917
- 85 Ardigò, Roberto 1828–
- .86 Comparetti, Domenico 1835–
- .87 Zumbini, Bonaventura 1840–
- .88 Panzacchi, Enrico 1841–1904
- .89 Minor essayists

.91 **Early 20th century** 1901–

855 Italian oratory
Subdivided by periods like 851

856 Italian letters
" " " " "

857 Italian satire and humor
.1 **Early Italian Age of Dante** –1375
- .11 Gemignano, Folgore da San
- .12 Chitarra, Cene dalla
- .13 Angiulieri, Cecco
- .14 Pucci, Antonio –1377
- .19 Minor writers

.2 **Period of classic learning** 1375–1492
- .21 Burchiello, Domenico 1395–1448
- .22 Pulci, Luigi 1432–84
- .23 Vinciguerra, Antonio
- .29 Minor writers

.3 **Age of Leo the Tenth** 1492–1542
- .31 Folengo, Teofilo (Merlin Cocai) 1491–1544
- .32 Berni, Francesco 1496–1535
- .39 Minor writers

.4 **Later 16th century** 1542–85
- .41 Nelli, Pietro
- .42 Beccuti, Francesco 1509–53
- .43 Caporali, Cesare 1531–1601
- .49 Minor writers

857.5 **Period of decline** 1585–1748
- .51 Tassoni, Alessandro 1565–1635
- .52 Bracciolini, Francesco 1566–1645
- .53 Lalli, Giovambattista 1572–1637
- .54 Lippi, Lorenzo 1606–64
- .55 Rosa, Salvatore 1615–73
- .56 Menzini, Benedetto 1646–1704
- .57 Sergardi, Ludovico 1660–1726
- .58 Fortiguerri, Niccolò 1674–1735
- .59 Minor writers

.6 **Period of renovation** 1748–1814
- .61 Gozzi, Gasparo 1713–86
- .62 Passeroni, Gian Carlo 1713–1803
- .63 Casti, Giovambattista 1721–1803
- .64 Parini, Giuseppe 1739–99
- .65 Baretti, Giuseppe 1716–89
- .66 Elci, Angelo Maria d' 1754–1824
- .67 Pananti, Filippo 1766–1837
- .69 Minor writers

.7 **Early 19th century** 1814–59
- .71 Giusti, Giuseppe 1809–50

.8 **Later 19th century** 1859–1900

.91 **Early 20th century** 1901–

858 Italian miscellany
.8 **Later 19th century** 1859–1900
- .81 Gubernatis, Angelo de 1840–
- .82 Amicis, Edmondo de 1846–1908

859 Rumanian literature
Wallachian

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

.9 **Romansh literature**
Subdivided like 859

860 Spanish literature

860.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on Spanish literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

861 Spanish poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of Spanish poetry

.1 Early Spanish –1369

In 711 the Visigothic kingdom, founded in the 5th century, was overthrown by Arabs; 711–1492 Arabic period or Age of reconquest

Literature began in first half of 12th century. Earliest poetry, epic; subjects national, themes war and religion (861.11–.12). These wer followd by an erudite tendency toward classic tradition neglecting national themes (861.13 and .14) which wer however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the Wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Thru him (1) Provençal (and Galician) and (2) Oriental influences wer introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 Primitiv monuments

.12 **Poema de mio Cid**

.13 Berceo, Gonzalo de 1196–1266

.14 Segura de Astorga, Juan Lorenzo 1250

.15 Yañez Ruy (Cronica del Rey Alfonso Onceno)

.16 Sem Tob, Rabbi 1350

.19 Minor poets

.2 Age of imitation 1369–1516

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There wer 3 distinct schools:

1 Provençal, specially influential at court

2 Italian (Dante) or Allegoric, introduced by Francisco Imperial, a Genoese. (Mena, 861.22)

3 Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21)

.21 Lopez de Ayala, Pedro 1332–1407

.22 Mena, Juan de 1411–56

.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458

.24 Manrique, Jorge 1440–79

.25 Los Cancioneros } Collections of poetry

.26 Los Romances } Collections of poetry

.27 **Romancero del Cid**

'Romances' popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th century. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492

.29 Minor poets

861.3 Golden age 1516–1700

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera — 16th century; Ribera 1588–1656; Zurbaran 1598–1662; Velazquez 1599–1660; Cano 1601–67; Murillo 1618–82, etc. Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with deth Great number of poets. Nothing notable in epic; lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of 2 schools follows in which the Italian wins the major influence. Thereafter appear 2 new schools:

1 Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and

2 Sicilian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of 'bad taste' appear (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. Bad taste consisted in artificialities, exaggerations, obscurities, etc.

.31 Vega, Garcilaso de la 1503–36

.32 Castillejo, Cristóbal de 1494–1596

.33 Leon, Luis Ponce de 1528–91

Leon is equally important in prose

.34 Los Argensolas: Lupercio 1563–1613

Bartolomé Leonardo 1564–1631

.35 Herrera, Fernando de 1534–97

.36 Mendoza, Diego Hurtado de 1503–75

.37 Góngora y Argote, Luis de 1561–1627

.38 Rioja, Francisco de 1600–59

.39 Minor poets

.4 18th century 1700–1800

At deth of Carlos 2d (1700) war of succession resulted in firm establishment of house of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, 'bad taste' every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, til close of century, despite foundation of academies (Spanish academy, 1714) and doctrinal reform in French sense, proclaimd by Luzan (1702–54) in *La poetica*, etc. Thereafter a kind of revival. 3 schools formd:

1 Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44)

2 Antique national, protesting against introduction of French taste. Huerta (861.43)

3 Salamanca school, an attempt to reconcile the first 2, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). 'Prosaism' production of exaggerated opposition to Gongorism or 'bad taste' also characterizes period. Influence of French encyclopediam also manifest. Development of science checkt by religious (Inquisition) and political despotism. Rich development of fables and apologs in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty

.41 Moratin (the Elder), Nicolás Fernandez de 1737–80

.42 Cadalso, José de 1741–82

.43 Huerta, Vicente Antonio García de la 1734–87

.44 Samaniego, Félix María de 1745–1801

.45 Yriarte, Tomás de 1750–91

.46 Valdés, Juan Melendez 1754–1817

.47 Iglesias de la Casa, José 1748–91

.48 Cienfuegos, Nicasio Alvarez de 1764–1809

.49 Minor poets

861.5 19th century 1800–1900

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) queld. Isabella driven from throne by revolution 1868; 1870–73 Amadeo (Savoy house), 1873, Amadeo abdicates and republic proclaimd; monarchy restored with Alfonso 12th in 1875

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism reintroduced and revolution followd. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awakening with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53)

.51 Quintana, Manuel José 1772–1857
.52 Espronceda, José de 1810–42
.53 Zorrilla y Moral, José 1817–90
.54 Gutierrez, Antonio García 1812–84
.55 Gil y Zárate, Antonio 1792–1861
.56 Hartzembusch, Juan Eugenio 1806–80
.59 Minor poets

.6 Early 20th century 1901–

862 Spanish drama

.2 Age of imitation 1369–1516

Evidences of existence of 'mysteries' but no remains

.21 Enzina, Juan del (?)1468–1534
.22 Vicente, Gil (?)1450–1536

.3 Golden age 1516–1700

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 'Lope' had written 1500 dramas), 30,000 dramas composed by beginning of 18th century. At opening of period Church tried to check development of profane drama, placing nearly all in the *Index*. Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence

.31 **Vega Carpio, Lope Felix de** 1562–1635
.32 Castro y Belvis, Guillen de 1567–1621
.33 Tellez, Gabriel (Tirso de Molina, pseud.) (?)1570–1648
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639
.35 **Calderon de la Barca, Pedro** 1600–81
.36 Rojas y Zorrilla, Francisco de 1607–
.37 Moreto y Cabaña, Agustin 1618–69
.39 Minor dramatists

.4 18th century 1700–1800

Complete decadence of drama in last years of old monarchy. Revival in 18th century, following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National school voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit caracterizing mass of writers, Comella (862.41) — Period of unrest; old ideas can not be reestablisht, new can not be naturalized. For Moratin the elder, see 861.41; Huerta, 861.43

.41 Comella, Luciano Francisco 1716–79
.42 Moratin, Leandro Fernandez de 1760–1828
.43 Cruz, Ramon de la (Light comedies) 1731–95
.49 Minor dramatists

.5 19th century 1800–1900

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent 'romantic' movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch 861.56

.51 Martinez de la Rosa, Francisco 1789–1862
.52 Rodriguez Rubí, Tomás 1817–90
.53 Bretón de los Herreros, Manuel 1796–1873
.59 Minor dramatists

.6 Early 20th century 1901–

863 Spanish fiction

.2 Age of imitation 1369–1516

Immense vogue of books of chivalry despite legislation til publication of *Don Quijote;* thereafter only one written. [First part of Quijote printed 1605]

.21 Books of chivalry
.22 **Amadis de Gaula**
.23 *Celestina*

.3 Golden age 1516–1700

Real novel replaces old books of chivalry about 1500. 'Picaresca,' or 'rogue' novel characteristic of this period; a result of the state of society following wars of Charles 1st and Philip 2d, e. g. Mendoza's *Lazarillo de Tormes*. For Mendoza, see 861.36

.31 Montemayor, Jorge de 1520–61
.32 **Cervantes Saavedra, Miguel de** 1547–1616
.39 Minor novelists

.4 18th century 1700–1800

.5 19th century 1800–1900

For Bretón de los Herreros, see 862.53; and Rodrigues Rubí, 862.52

.51 Larra, Mariano José de [Figaro] 1809–37
.52 Mesonero y Romanos, Ramón de 1803–82
.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1877
.59 Minor writers

.6 Early 20th century 1901–

864 Spanish essays

Subdivided by periods like 861

865 Spanish oratory

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restraind. Sacred eloquence less employd by Spanish church than by French or English. Gongorism or 'bad taste' conquers here as elsewhere

.1 Early Spanish –1369

.2 Age of imitation 1369–1516

.3 Golden age 1516–1700

For Luis de Leon, see 861.33; and Luis de Granada, 868.32

.4 18th century 1700–1800

For Jovellanos, see 868.42; and Valdés, 861.46

.5 19th century 1800–1900

.51 Olozaga, Salustiano de 1803–73
.52 Castelar, Emilio 1832–99

.6 Early 20th century 1901–

866 Spanish letters

.3 Golden age 1516–1700

Naturalness of old times changed with majestic court and rigid etiquet of Charles 5th. For Santa Teresa, see 868.33

.31 Avila, Juan de 1502–69
.32 Perez, Antonio 1540–1611
.39 Minor writers

867 Spanish satire

.1 **Early Spanish** –1369
Ruiz, Juan (Arcipreste de Hita) 1350
.2 **Age of imitation** 1369–1516
Coplas de Mingo Revulgo
.3 **Golden age** 1516–1700
Quevedo Villegas, Francisco Gomez de 1580–1645
.4 **18th century** 1700–1800
For Cadalso, see 861.42; and Moratin the younger, 862.42
.41 Jorge Pitillas (a pseudonym)
.42 Isla, José Francisco de (el Padre) 1703–81

868 Spanish miscellany

.1 **Early Spanish** –1369
.11 Alfonso 10, el Sábio 1221–84
.12 Sancho el Bravo (4th of Castile) 1258–95
.13 Manuel, Juan 1282–1347
.14 Alfonso 11 1310–50
.19 Minor writers
.2 **Age of imitation** 1369–1516
General and special histories, books of travel, works cald forth by Boccaccio's *Corvaccio*, etc.
.3 **Golden age** 1516–1700
Didactic prose. Considerable development, tho less than poetry, owing in great mesure to political and religious restraints. 'Bad taste' manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representativs of Mystic school
For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3
.31 Mariana, Juan de, founder of Spanish history 1536–1623
.32 Granada, Luis de 1504–88
.33 Teresa de Jesús, Santa 1513–82
.34 Cruz, San Juan de la 1542–91
.35 Rivadeneyra, Pedro de 1527–1611
.36 Saavedra Fajardo, Diego de 1584–1648
.39 Minor writers
.4 **18th century** 1700–1800
Under Carlos 3d (1759–88) scientific studies took a fresh start, due largely to Feijóo, who attempted intellectual emancipation of Spain. Prose advances under French influence, Gallicisms introduced
.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764
.42 Jovellanos, Gaspar Melchor de 1744–1811
.49 Minor writers
.5 **19th century** 1800–1900
For Hartzembusch, J E, see 861.56
.51 Gayangos, Pascual de 1809–97
.52 Rios, José Amador de los 1818–78
.53 Milá y Fontanals, Manuel 1818–84
.59 Minor writers
.6 **Early 20th century** 1901–

869 Portuguese literature

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters
.7 Satire and humor .8 Miscellany
.9 **Galician literature**
Subdivided like 869

870 Latin literature

.1 Philosofy .2 Compends .3 Dictionaries, cyclopedias .4 Essays on Latin literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections
.9 History of Latin literature
For 'classic' literature (including both Greek and Latin) see 880

871 Latin poetry in general

See Dramatic, Epic and Lyric below
.1 **Lucretius Carus, Titus**
.2 **Ovid** (Publius Ovidius Naso)
.3 **Hyginus, Caius Julius**
.4 **Faliscus, Gratius**
.5 **Manilius, Marcus**
.6 **Phaedrus**
.7 **Lucilius Junior** *Ætna*
.8

872 Latin drama

.1 **Andronicus, Livius**
.2 **Naevius, Cnaeus**
.3 **Plautus, Titus Maccius**
.4 **Ennius**
.5 **Terence** (Publius Terentius Afer)
.6 **Seneca, Lucius Annaeus** See also 878.5
.7

873 Latin epic poetry

.1 **Virgil** (Publius Virgilius Maro)
.2 **Lucanus, Marcus Annaeus**
.3 **Flaccus, Caius Valerius**
.4 **Silius Italicus, Caius**
.5 **Statius, Publius Papinius**
.6

874 Latin lyric poetry

.1 **Catullus, Tibullus and Propertius**
.2 Catullus, Valerius
.3 Tibullus, Albius
.4 Propertius, Sextus Aurelius
.5 **Horace** (Quintus Horatius Flaccus) See also 877.3
.6 **Calpurnius Siculus**
.7

875 Latin oratory

.1 **Cicero, Marcus Tullius: complete works**
For Cicero's letters see 876.1
.2 Orations
.3 Rhetorical works
.4 Philosofic works See also 186.3
.5 **Messala Corvinus, Marcus Valerius**
.6 **Quintilian (Marcus Fabius Quintilianus)**
.7

876 Latin letters

.1 **Cicero, Marcus Tullius** For his other works see 875.1–875.4
.2 **Pliny (Caius Plinius Caecilius Secundus)**
.3 **Fronto, Marcus Cornelius**
.4

877 Latin satire and humor

.1 **Lucilius, Caius**
.2 **Cato, Valerius**
.3 **Horace** See 874.5
.4 **Persius Flaccus, Aulus**
.5 **Petronius Arbiter, Caius**
.6 **Martial (Marcus Valerius Martialis)**
.7 **Juvenal (Decimus Junius Juvenalis)**

878 Latin miscellany

.1 **Caesar, Caius Julius**
.2 **Sallust (Caius Sallustius Crispus)**
.3 **Nepos, Cornelius**
.4 **Livy (Titus Livius Patavinus)**
.5 **Seneca, Lucius Annaeus** See also 872.6 and 188.6
.6 **Tacitus, Caius Cornelius**
.7 **Suetonius Tranquillus, Caius**
.8 **Curtius Rufus, Quintus**
.9 **Minor writers**

879 Medieval and modern Latin

Subdivided like 820. .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

880 Greek literature

Classic literature
.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on Greek literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of Greek literature

881 Greek poetry in general

See Dramatic, Epic, and Lyric, below

.1 **Theognis**
.2 **Aratus**
.3 **Lycophron**
.4 **Babrius**

882 Greek dramatic poetry

.1 **Æschylus**
.2 **Sophocles**
.3 **Euripides**
.4 **Aristophanes**
.5 **Epicharmus**
.6 **Menander**

883 Greek epic poetry

.1 **Homer**
.2 **Hesiod**
.3 **Apollonius Rhodius**
.4 **Oppian**
.5 *Orphic poems*

884 Greek lyric poetry

.1 **Tyrtaeus**
.2 **Sappho**
.3 **Anacreon**
.4 **Simonides of Ceos**
.5 **Pindar**
.6 **Theocritus**
.7 **Bion**
.8 **Callimachus**
.9 **Minor Greek lyric poets**

885 Greek oratory
- .1 Andocides
- .2 Lysias
- .3 Isaeus
- .4 Isocrates
- .5 Æschines
- .6 Demosthenes
- .7 Hyperides
- .8 Lycurgus
- .9 Minor Greek orators

886 Greek letters
- .1 Themistocles
- .2 Alciphron
- .3 Phalaris

887 Greek satire and humor
For comedies of Aristophanes see 882.4
- .1 Archilochus
- .2 Simonides of Samos
- .3 Hipponax

888 Greek miscellany
- .1 Herodotus
- .2 Thucydides
- .3 Xenophon
- .4 Plato See also 184.1 Platonic philosofy
- .5 Aristotle See also 185.1 Aristotelian philosofy
  Or, if preferd, the works of Plato and Aristotle may be put in 184.1 and 185.1
- .6 Æsop
- .7 Lucian
- .8 Plutarch See also 186.2
- .9 Minor writers

889 Medieval and modern Greek
.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

890 Literature of other languages

Subdivided like 490, Philology of other languages. If wisht 1 Poetry; 2 Drama, etc., can be used after the language number; e. g. Russian drama is 891.72, Hebrew poetry 892.41, Bengali poetry 891.441

History

900 History in general

901–909 all hav *History in general* as their subject, but it is treated in these various *forms*. A periodical on English history goes with 942, not 905, which is only for periodicals on history in general. Naught (0) in any clas number in any part of the classification shows the subject to be general, not specific

901 Philosofy, theories, etc. History of civilization

902 Compends, chronologies, charts, outlines
For chronology as a science, see 529

903 Dictionaries, cyclopedias, etc.

904 Essays, lectures, addresses

905 Periodicals, historical magazines

906 Societies, transactions, etc.

907 Education, methods of teaching, writing, etc.
See also 371.3

908 Polygrafy, collected works, extracts, etc.

909 Universal and general modern histories
For general Ancient histories, see 930
- .1 A. D. 476—1199
- .2 1200—1299
- .3 1300—1399
- .4 1400—1499
- .5 1500—1599
- .6 1600—1699
- .7 1700—1799
- .8 1800—
- .81 1800—99
- .82 1900—99

910 Geografy Travels Description

Including topografy, maps, antiquities, descriptions, etc.
For map projection, see 526.9. See also 310 Statistics, 390 Customs and costumes
For directories, guidebooks, gazetteers, etc. of special countries or geografic sections see under those sections, 914–919

- .1
- .2 Traveler's manuals, guidebooks
- .3 Dictionaries, gazetteers
- .4 Circumnavigations, ocean travel, shipwrecks and disasters, piratic adventures
- .5 Periodicals
- .6 Societies
- .7 Study and teaching of geografy: school map drawing
  For primary teaching of geografy see 372.89
- .8 Collections of travels, etc.
- .9 History of geografy, travels, explorations, etc.

911 Historic Growth and changes in political divisions, etc. Subdivided like 930–999

912 Maps, atlases, plans of cities, etc.
Subdivided like 930–999

913 Antiquities, archeology, of special countries
See also 220.93 Biblical antiquities; 340.3 Legal antiquities; 571 Prehistoric archeology; 930 Ancient history; 390 Special customs

.3 **Antiquities of ancient countries**
Subdivided like 930, e. g. 913.32 Egyptian antiquities. Antiquities of countries having both ancient and modern history numbers should be clast in 913.3 unless the antiquities relate wholly or mainly to the country after it entered the 'modern' period

.4–.9 **Antiquities of modern countries**
Subdivided like 940–999, e. g. 913.42 English antiquities. See aiso note under 913.3

914 Europe
915 Asia
916 Africa
917 North America
918 South America
919 Oceania and Polar regions

914–919 is subdivided like 940–999. Whenever these main geografic hedings occur they may be subdivided exactly like History. The full list of subheds is printed only under 940–999. In assigning numbers to travels, use the history tables, *insert* 1 *after the initial* 9, and move the decimal point; e. g. Guide to N.Y. city is 917.471, for N.Y. city in history tables is 974.71

920 Biografy

Including autobiografy, diaries, personal narrativs, eulogies, biografic dictionaries, etc. All biografy is here groupt together under the main classes, and subdivided in the same way with the variations indicated below for Philosofy, Theology, and Sociology, i. e. the biografy of science is divided like science itself, see 500–599. Lives of chemists ar 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, etc. The rule is to giv each life the number of the subject it illustrates most, or to the student of which it wil be most useful

Lives which wil not go under any hed without 'forcing' ar best put in a single alfabet under the 3 figures 920 for men and under 920.7 for women

Another plan is to scatter biografy with the other books, using 920–928 only for general works, cross references, etc. This simply omits the first 2 figures 92, and the life of a botanist is 580 instead 925.8, and goes with botanic books. This plan may be carried out more specifcly where 9 has been used for the history of a subject, by adding for biografy the figure 2, making the life of a botanist 580,92

A 3d plan, specially adapted to public libraries, is to arrange all individual biografies in a single alfabet under 92 (better than B, which is often used but which has no logical position in a numeric arrangement). Group 92 may be shelvd before 920, under which all collectiv biografies may be arranged in a single alfabet, but it is generally better to distribute these under more specific numbers 921–928 printed below

General and collectiv by localities

Including only collected lives too general to go under any subject heding

.01 Universal
.02 Partial collections not limited to any special country or subject
.03 Ancient
.04 Of Europe
.05 " Asia
.06 " Africa
.07 " North America
.08 " South America
.09 " Oceania

920 Individual and collectiv by subjects

.1 **Bibliografers**
.2 **Librarians**
.3 **Encyclopedists**
.4 **Publishers Booksellers**
.5 **Journalists**
.6 **Academicians**
.7 **Women** Collected, and individual lives not clearly going with any subject
.8 **Eccentrics, cranks, fools, insane, etc.** See also 132.1 Insanity
.9 **Other special classes not included in 921–928, e. g. phrenologists, somnambulists, mindreaders, magicians, etc.**

921 Of philosofy

.1 **American**
.2 **English Scotch**
.3 **German**
.4 **French**
.5 **Italian**
.6 **Spanish**
.7 **Slavic**
.8 **Scandinavian and other modern**
.9 **Ancient Oriental Patristic Scholastic** See 180–189

922 Of religion: clergy, missionaries, preachers

922.1–922.88 may be subdivided for nationality like 930–999

.1 **Primitiv apostles, fathers, etc. oriental, Greek, Russian**
See 225.92 for New Testament biografy
.2 **Roman catholic: popes, cardinals, etc.**
.21 Lives of popes
.3 **Anglican and protestant episcopal**
.4 **Continental protestant: Lutheran, Huguenot**
.5 **Presbyterian and congregational**
.6 **Baptist Immersionist**
.7 **Methodist**
.8 **Unitarian, universalist and other**
.81 Unitarian Universalist
.83 Mormons
.84 New church or Swedenborgian
.85 Christian science
.86 Quaker
.87 Mennonite
.88 Shaker
.89 Other Christian sects

922.9 **Nonchristian**
.91 Atheist
.92
.93
.94 Brahman Buddhist
.95 Parsee
.96 Jew
.97 Mohammedan
.98
.99 **Other nonchristian religions**

923 Of sociology

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g. the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551

.1 **Chief rulers: kings, queens, emperors, presidents**
.2 **Political science: legislativ dep't, governors, politicians, statesmen, nobles, etc.** For slaves, see 326.92
.3 **Political economy: bankers, capitalists, financiers**
.4 **Law: judiciary dep't, lawyers, judges**
.41 Criminals
.5 **Administration: army and navy, civil servis**
.6 **Associations and institutions Philanthropists, etc.**
.7 **Education: teachers, school offisers, educators**
.8 **Commerce and communication: railway officials, merchants, etc.**
.9 **Manners and customs: society, travelers, discovery**

924 Of philology
925 " science
926 " useful arts
927 " fine arts
928 " literature

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g. in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g. a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7

In adding figures for the subdivisions of literature, as in 810–899, clas historians with miscellaneous authors as 8; i. e. Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet

929 Genealogy and heraldry
.1 **Genealogies**
.2 Families
.3 Registers of births, baptisms, marriages, deths
.4 Names of persons and places
.5 Epitafs
.6 **Heraldry**
.7 **Peerage, precedence, titles of honor** **Royal houses**
.71 **Orders of knighthood**
.711 St John of Jerusalem
.712 Templars
.713 Teutonic knights
.714 Garter
.715 Golden Fleece
.716 Holy Ghost
.717
.718
.719
.72 **Great Britain and Ireland**
.7201 Peerage Royal houses
.7202 Baronetage
.7203 Knightage
.7204 Dignities, precedence
.7205 Landed gentry
.7206 Visitations **Alfabeted by counties**
.73 **Germany**
.74 **France**
.75 **Italy**
.76 **Spain**
.769 **Portugal**
.77 **Russia**
.78 **Scandinavia**
Further subdivided locally, if needed, like 943-948. Under any geografic division 01-06 may be used as shown above under 929.72
.79 **Other countries**
Divided like 949; countries outside Europe ar put together in 929.799
.8 **Coats of arms, crests**
.9 **Flags**

930 **Ancient history** 476 A.D.
931 China
932 Egypt
933 Judea
934 India
935 Medo-Persia
.1 **Chaldea**
.2 **Assyria** **Nineveh**
.3 **Media**
.4 **Babylonia**
.5 **Persia**
.6 **Parthia**
.7 **New Persian or Sassanian**
.8 **Mesopotamia**
.9 **Susiana**
936 Races forming the new European nations
Barbarians
To fall of Western empire, A. D. 476
.3 **Germans**
.31 Burgundians Bourguignons Vandlsa Alani
.311 Burgundians
.312 Bourguignons
.313 Vandals
.314 Alani
.32 Saxons and Angles
For history after 476 A. D. see 942 England
.321 Saxons
.322 Angles
.33 Alemanni Heruli Suevi
.331 Alemanni
.332 Heruli
For history after 476 A. D. see 945 Italy
.333 Suevi
For history after 585 A. D. see 946 Spain.
.35 Lombards
For history after 572 A. D. see 945.01 Italy
.36 Goths
.361 East Goths Ostrogoths
For history after 493 A. D. see 945.01 Italy
.362 West Goths Visigoths
For history after 476 A. D. see 946 Spain
.4 **Kelts**
For history of Gaul see 944 France
.7 **Slavs**

937 Rome Italy

Period divisions

.01	Kings	753–509 B. C.
.02	Republic	509– 31 "
.03	Conquest of Italy	509–264 "
.04	Punic wars	264–146 "
.05	Civil strife	146– 31 "
.06	Empire	31 B. C.–476 A. D.
.07	Constitutional	31 " –284 "
	Augustus—Illyrian emperors	
.08	Absolute	284–476 "
.09	Division of empire	395–476 "
	Barbarian conquests and fall of Western empire	

Geografic divisions

.1 **Liguria**
.2 **Gallia Cisalpina**
.3 **Venetia Istria**
.4 **Umbria Picenum Sabini, etc.**
.5 **Etruria**
.6 **Latium, Rome**
.7 **Southern Italy: Campania, Samnium, Apulia, etc.**
.8 **Sicily, Syracuse**
.9 **Sardinia Corsica**

938 Greece

Period divisions

.01	Mythical age	–776 B. C.
.02	Growth of states	775–500 "
.03	Persian wars Union of Greece	500–479 "
.04	Athenian supremacy	479–431 "
.05	Peloponnesian war	431–404 "
.06	Spartan and Theban supremacy	404–362 "
.07	Macedonian supremacy	362–323 "
.08	Roman conquest of Greece	323–146 "
.09	Greek subjection	146 B. C.–323 A. D.
	Byzantine empire is clast 949.5	

Geografic divisions of Greece

938.1 **Macedonia**
.2 **Thessaly Epirus**
.3 **Acarnania Ætolia Locris Doris Phocis Ithaca**
.4 **Boeotia Megaris Euboea**
.5 **Attica**
6 **Peloponnesus**
.7 **Corinthia Achaia**
.8 **Elis Arcadia Argolis**
.9 **Messenia Laconia Sparta**

939 Other countries

.1 **Grecian archipelago**
.11 Northern ilands: Thasos, Lemnos, etc. .12 Lesbos .13 Chios, etc. .14 Samos, etc. .15 Cyclades .16 Rhodes, etc. .17 Carpathos .18 Crete

.2 **Western Asia Minor**
.21 Mysia, Troas .22 Lydia .23 Ionia .24 Caria .25 Bithynia .26 Phrygia .27 Pisidia .28 Lycia .29 Pamphylia

.3 **Eastern Asia Minor**
.31 Paphlagonia .32 Galatia .33 Pontus .34 Cappadocia .35 Cilicia .36 Commagene .37 Cyprus

.4 **Syria**
.41 Upper Syria .42 Coele Syria .43 Palmyra .44 Phenicia, Tyre .45 Palestine: Hittites, Philistines, etc. .46 Edom, Moab, Bashan, etc. .47 Arabia .48 Arabia Petraea, Sinai

.5 **Northwestern Asia**
.51 Scythia .52 Sarmatia Asiatica .53 Colchis .54 Iberia .55 Armenia .56 Albania

.6 **South Central Asia**
.61 Sogdiana .62 Hyrcania .63 Margiana .64 Bactriana .65 Ariana

.7 **Minor African countries**
.71 Mauritania .72 Numidia .73 Africa Propria, Carthage .74 Syrtica Regio .75 Cyrenaica .76 Marmarica .77 Libya, Gaetulia .78 Ethiopia

.8 **Southeastern Europe**
.81 Sarmatia Europa .82 Dacia .83 Vindelicia .84 Rhaetia .85 Noricum .86 Pannonia .87 Illyria .88 Moesia .89 Thracia

Modern history

940 Europe

From fall of the Western empire (Rome) A. D. 476

.1	**Medieval Europe**	476–1453
	For Byzantine empire see 949.5	
.11	**Rise of new nations**	476– 800
.14	**Age of feudalism**	800–1100
	See also 321.3 Feudalism (Political science)	
	Charlemagne 768–814	
	Norman conquests	
.17	**Age of chivalry**	1100–1453
	To fall of Eastern empire (Constantinople) 1453	
.18	**Crusades**	1096–1270
	See also church history, 270.4–.5	
.181	1st crusade 1096 (Peter the Hermit)	
.182	2d " 1147 (St Bernard)	
.183	3d " 1190 (Richard Coeur de Lion)	
.184	4th " 1202 (Baldwin of Flanders)	
.185	5th " 1212 (Children's crusade)	
.186	6th " 1217 (Capture of Jerusalem)	
.187	7th " 1228	
.188	8th " 1248 (St Louis)	
.189	9th " 1270 "	
.2	**Modern Europe**	1453–
.21	**Renaissance period**	1453–1517
	Discoveries and inventions	
.22	**Age of the reformation**	1517–1789
.23		
.24	30 years war	1618–48
.25		
.26		
.27	**Napoleonic period**	1789–1815
.28	**19th century**	1815–1914
.29		
.3	**World war**	1914–19

SUMMARY OF 940.3–.4

.31	Political history
.32	Diplomatic history
.33	Groups of countries: allies and neutrals
.34–.39	Individual countries
.4	Military history
.41	Land operations
.42–.43	Special campains and battles
.44	Air warfare
.45	Naval history
.46	Celebrations, commemorations
.47	Prisons, hospitals, welfare work
.48	Personal narrativs, secret servis, propaganda
.49	Illustrativ material

Europe

after World war

with D C numbers for countries

940.31 Political history

.311 Causes

Conditions and events mentiond below ar to be clast here only when considerd distinctly as causes of the war, otherwize under their own numbers

2 **Historical, political and diplomatic causes**

Militarism. Imperialism (See 321.03). Pan-Slavism (See 327.47). Pan-Germanism (See 327.43). Near East question, Congress of Berlin (See 341.1). Triple alliance, Dual alliance, Triple entente (See 341.2). Diplomatic crises: 1st Moroccan crisis 1905–6, annexation of Bosnia and Herzegovina 1909, 2d Moroccan crisis 1911. Balkan leag 1912. Treaties of Lausanne, 1912; London, 1913; Bukarest, 1913 (See 341.2 Treaties). Crisis of 1914: assassination of Archduke Francis Ferdinand; ensuing complications

3 **Economic causes**

Socialism (See 335). Commercial rivalry. Desire for colonial empires: Over-population in Europe, Food supply, Outlet for manufactures, Ambition for cultural expansion

.312 Efforts to preserv or restore peace

See also 940.32 Diplomatic history

Proposed: Hague mediation by Serbia, conference in London by Grey, submission to Hague tribunal by Russia, submission of problems to the great powers by Russia

2 **By year**

24 In 1914
25 " 1915
26 " 1916
27 " 1917
28 " 1918

8 **By classes of persons**

Divided like main classification; e. g efforts by clergy 940.31282

9 **By country**

Divided like 940–999

.314 Results: terms of peace (See note under 940.311)

1 **Treaties and conferences** See also 341.1–.2

Treaty of Versailles, 23 June 1919, between Allies and Germany; ratified by U S 18 Oct. 1921

12 Subsequent treaties and conferences

Defensiv alliances between France and England, and between France and U S
Treaty of St Germain, 17 Oct. 1919, with Austria
" " Neuilly, 27 Nov. 1919, with Bulgaria
Paris conference 24 Jan. 1921
Brussels, 24 Sep. 1921
Cannes conference 6 Jan. 1922
Washington disarmament conference 6 Feb. 1922
Genoa conference 10 Ap. 1922

2 **Treaty outcomes**

22 Reparations
24 Changes in boundaries
25 Establishment of new nations
26 " " mandates

3 **Leag of nations** See 341.1

940.3144 **Reconstruction**
May be divided like 940–999, but preferably clast with individual countries

.3148 **Effect on world conditions**
May be divided like main classification, but results with relation to special topic ar preferably clast with that topic

.3149 **Effect on special countries**
May be divided like 940–999, but preferably clast with individual countries

.315 Relations of special classes
Subdivided like the classification, using 9 for refugees, divided like 940–999 by country of origin. For classes not thus provided for see 940.316

2 **Clergy Church**
Subdivide .3152–28 like 280, but use .315289 for sects in 289; e. g.
.31521 Greek catholic church
22 Roman " " Pope
2895 Christian scientists
Use .31529 like 290; e. g.
.315296 Jews
297 Mohammedans **Holy war**

.316 Other special classes
1 **Noncombatants**
2 **Pacifists**
3 **Enemy sympathizers**

.318 Relations of special interests Aspects
Divided generally like the classification

.32 Diplomatic history
See also 940.31–.314 Political history

.33 Groups of countries: allies and neutrals
As a body; for individual countries see 940.34–.39

.332 Entente

.334 Teuton allies, Central powers

.335 Neutrals

.34–.39 Individual countries
Divided like 940–999
Under each country further subdivision may be made with the following numbers, if its part in this war is clast here insted of with the rest of its history:
01 Political history Causes
02 Diplomatic "
03 Local (states, counties, provinces, cities)
04 Military organization
Clas operations in 940.4
05 Aspects: economic and other
06 Celebrations
07 Prisons, etc.
08 Personal narrativs
09 Illustrativ

940.4 Military history
.402 Recruitment Volunteers Drafts
.403 Colonials American negroes American Indians
.405 Penal and malign mesures
Deportation, confiscation, censorship
6 Frightfulness, atrocities
As military expedient. For other relations see Atrocities in Relativ index

.41 Land operations
For general works on land operations in special localities. Clas accounts of special campains and battles in 940.42–.43. Divisions of 940.41 may, if needed, be further subdivided like 940–999. Below ar given the most important

.414 Europe
3 **German fronts**
4 **French front** Including general West front
5 **Italian** "
7 **Russian** " Including general East front

.415 Asia

.416 Africa

.42–.43 Special campains and battles

.421 Campain of 1914

.4211 **Belgium Aug. 2–11**
Aug. 2 Germans invade Luxemburg
2–7 " besiege and take Liége
4–5 Belgians defend Visé

.4212 **Belgium Aug. 12–Sep. 27**
Aug. 12 Battle of Haelen
15 Engagement at Dinant
17 Germans enter Tirlemont
19 " " Louvain
20 " occupy Brussels
21 " " Tamines; attack Namur
22–29 Battle of Charleroi
Aug. 22 Germans take Charleroi
23 Battle of Mons Belgians evacuate Namur
Sep. 3 Germans occupy Hirson
27 " " Malines

.4213 **Belgium Sep. 28–Dec.**
Sep. 28–Oct. 9 Germans besiege and take Antwerp
Oct. 10–18 British in Lys valley
11 Germans occupy Ghent
11–Nov. 20 Battles of Flanders
Oct. 11–Nov. 17 1st battle of Ypres, or Ypres-Armentières
Operations round Menin, Gheluvelt and Le Gheir
Oct. 14 Allies occupy Ypres and Bruges
15 Allies occupy Ostend
Nov. 1 Germans take Wytschaete and Messines
11 Germans take Dixmude

Campain of 1914 *continued*

940.4213 **Belgium Sep. 28–Dec.** *continued*
Oct. 16–31 Battle of Yser river (Nieuport; Ramscappelle)
Dec. 28 French occupy St Georges, near Nieuport

.4214 **Northern France Aug. 10–29**
Aug. 10–29 Battle of the Ardennes
Aug. 10 French and German troops clash round Longwy, Spincourt, etc.
25–26 Battles of Landrecies, Maroilles and Le Cateau
26 Germans take Longwy
26–28 Battle of the Meuse
28 Battles of Signy-l'Abbaye
29 Battle of Guise

.4215 **Northern France Aug. 30–Sep. 9**
Aug. 30 Germans take Amiens, Montmédy, Laon and La Fère
Sep. 1 Germans in Compiègne
1–9 Fighting on the Ourcq
2–5 Germans advance to gates of Paris
3 " occupy fortified position of Condé
4 " " Reims

.4216 **Northern France Sep. 6–17**
Sep. 6–12 Battle of the Marne
Sep. 7 Germans begin retreat from the Marne; take Maubeuge
9 Foch's decisiv thrust at Les Marais de St Gond Battle of La Fère Champenoise
12 German retreat halted on the Aisne
12–17 Battle of the Aisne

.4217 **Northern France Sep. 13–Dec.**
Sep 13–27 Battle of Soissons
Sep. 18 Germans bombard Reims
30–Oct. 18
Battles in Artois
Sep 30–Oct. 8 1st battle of Arras
Oct. 3–12 Operations in Lys valley
3–13 Germans take Tournai, Douai and Lille
16 Allies occupy Armentières
Dec. 7 French take Vermelles

.4218 **Eastern France**
Aug. 22 Battle of Ste Geneviève
24 " " the Trouée de Charmes
29–Sep. 9 " " Nancy, or Grand Couronné
Sep. 21 Germans occupy Les Eparges
23 " take Varennes-en-Argonne
25 " " St Mihiel; storm 1st outer Verdun fort, Camp des Romains
Dec. Le Bois-le-Prêtre Fighting round Belfort, Verdun and St Mihiel

Campain of 1914 *continued*

940.4219 **Alsace-Lorraine**
Aug. 7 Entry of French troops French take Altkirch and Mülhausen
8 French and German troops clash in the Vosges
9 French evacuate Mülhausen
18 " take Saarburg and Chateau-Salins
19 2d French entry into Mülhausen
20 Battle of Metz, or Metz-Saarburg
22 Engagements at Réméréville
25–Sep. 12 Germans conquer Lorraine
Aug. 25 French driven from Lorraine; evacuate Mülhausen
27 Alsace cleard of French troops
29 Germans take Manonviller
Sep. 11 French evacuate St Dié
Dec. 29 French begin new offensiv against Alsace

.4221 **East Prussia Aug.**
Aug. 1 Russians advance to Johannisburg
19–20 Battle of Gumbinnen
24 Russians occupy Insterburg and Allenstein
26–31 Battle of Tannenberg (or Osterode)
Aug. 26–28 Russians defeated near Hohenstein
27 Battle of Usdau

.4222 **East Prussia Sep.-Dec.**
Sep. 7–10 Battle of Masurian lakes
11 Russians defeated at Lyck
13 " " in battle of Allenstein
Nov. 12 " occupy Johannisburg
14 Hevy fighting between Soldau and Statlupoenen

.4223 **Poland July 31-Nov. 5**
July 31 Austrians occupy Lublin
Aug. 1 Russians advance to Biala
4–8 Destruction of Kalisz
23 Austrian victory over Russians at Krasnik
Sep. 9–Nov. 5 Battles of the Vistula-San
Sep. 10–Nov. 5 Battles of Warsaw and Ivangorod
Oct. 13–Nov. 2 Battle of Chyrow
27 Russians reoccupy Lodz and Radom
31–Nov. 2 Battle of the Opatowka
Sep. 26–Oct. 2 Battle of Augustowo

Campain of 1914 *continued*

940.4224 **Poland** **Nov. 6–Dec.**
Nov. 12 Russians defeated at Wloclawek
17–Dec. 15 Battle of Lodz-Cracow
Nov. 17–Dec. 1 1st battle of Lodz
Nov. 24 Austrians take Pilica
Dec. 1–15 2d battle of Lodz
For battle of Limanova-Lapanov see 940.4225, Dec. 3–12
Dec. 4–12 Germans take Czentokov, Lodz and Przasnysz
18 Germans take Lowicz
20 Severe fighting between Germans and Russians on line of Bzura river Germans take Skierniewice
27 Germans occupy Mlawa

.4225 **Galicia**
Aug. 25 Russians invade Galicia
26–27 Battle of Zloczów
27–Sep. 3 Russians take Tarnopol and Halicz
29–30 Battle of Przemyslany
Sep. 1 " " Lemberg
3 Russians occupy Lemberg
12 Battle of Grodek-Rawa-Ruska
18–Oct. 9 1st siege of Przemysl
22 Russians take Jaroslav
27 " " Czernowitz
Nov. 6–Mar. 2 2d siege of Przemysl
For battle of Cracow see 940, 4224, Nov. 17–Dec. 15 Battle of Lodz-Cracow
Dec. 3–12 Battle of Limanova-Lapanov
21–25 " " Jaslo

.4226 **Russia in Europe (excluding Poland)**
Sep. 7–10 Russians defeated at Vilna
Nov. 8 Turks defeat Russians in the Caucasus
Dec. 1 " advance on Kars and Ardahan

.4227 **Serbia**
July 29 Austrians bombard Belgrade
Aug. 15 " enter Serbia
16–19 Battle of the Yadar (Jadar)
17 Serbs victorius in battle of Shabatz
Sep. 1–13 " invade Syrmia, Hungary
Sep. 10 Serbs take Semlin
Oct. 31–Dec. 15 Kolubara campa'n
Nov. 15 Austrians take Valjevo
Dec. 2 " occupy Belgrade Battle of the Ridges
15 Austrians evacuate Belgrade

.4228 **Albania**
Dec. 25 Italian marines occupy Avlona

.4231 **Turkey in Asia**
Nov. 22 British from India occupy Basra

.4233 **East Asia**
Sep. 28 Japanese-British forces attack works of Tsingtau
Nov. 7 Japanese take Tsingtau

Campain of 1914 *continued*

940.4234 **Egypt**
Oct. 31 Bedouin tribes invade Egypt
Nov. 12 Turks take El Arish
20 " and British clash 30 miles from Port Said

.4235 **North Central Africa**
Aug. 7 British occupy Lorne, in Togoland
26 " and French conquer Togoland

.4236 **British East Africa** **German East Africa**
Aug. 15 Germans take Taveta
Sep. 12 " " Karungu
Nov. 2 British invade German East Africa
4 " defeated at Tanga

.4237 **South Central Africa**
Oct. 1 Allies invade Kamerun
Nov. 20 Germans " Uganda

.4238 **South Africa**
Aug. 20 Beginning of German failure in Nyassaland
Oct. 15 South Africa rebels defeated at Ratedrai
27 South African sedition spreds; Gen. De Wet and Gen. Beyers in revolt
Nov. 4 British reverse in South Africa
Dec. 1 Gen. De Wet captured

.4239 **German Pacific ilands**
Sep. 11 Australian expedition siezes German hedquarters in German New Guinea
14 British occupy Herbertschoeche in Bismark arkipelago
30 New Zealanders occupy German Samoa

.424 Campain of 1915

.4241 **Belgium**
Ap. 17 British take Hill 60
22–27 2d battle of Ypres
Ap. 22 German success with gas
June 3 Battle at Hooge
Aug. 9 British success at Novge, near Ypres

.4242 **Northern France** **Jan.-Feb.**
Jan. 8 Battle of Soissons begins
14 Germans capture hights of Vregny

.4243 **Northern France** **Mar.-Dec.**
Mar.-Oct. Battles in Artois
Mar. 10–13 Battle of Neuve Chapelle
Mar. 10 British take Neuve Chapelle
May 9–20 Battles of Aubers ridge and Festubert
May 9 Attack on Rue du bois
16 Battle of Festubert begins
12 Battle of Cambrai-St Quentin French take Carency
June 6 Allies take most of the 'Labyrinth', north of Aisne
9 Allies take Neuville-St Vaast, near Arras
Sep. 25 French take Souchez
25–28 Battle of Loos

Campain of 1915 *continued*

940.4244 **Eastern France Jan.-Sep. 8**
Jan. 24–Ap. 30 1st German assault on Verdun
1st phase: Douaumont and Vaux, and forts west of the Meu e
Ap. 7 Germans surrender Les Eparges
Feb. 16–Mar. 11 French offensiv in Champagne
July 14 Germans advance in the Argonne
Sep. 8 " take trenches in "

.4245 **Eastern France Sep. 9–Dec.**
Sep. 24–Dec. 15 Operations in Champagne
Sep. 29–Oct. 1 French progress in Champagne
Oct. 6 " take Tahure and Butte de Tahure (Tahure hill)
24 French take the Courtine, south of Tahure
30 Germans retake Butte de Tahure

.4246 **Alsace-Lorraine**
Jan. 3 French take Steinbach
9 " lose "
17–18 " advance close to Metz
June 22–Dec. 24 Activity in the Vosges

.4248 **Austro-Italian front**
May 26 Italians invade Tyrol and Carinthia
27 " take Ala; cros Isonzo near Gorizia (Goeritz)
28 Italians take Grado
June 4 " " Monte Nero, Upper Isonzo
9 Italians attack Gorizia, and take Monfalcone and Plava
11 Italians take Gradisca on the Isonzo
12 " reach Rovereto and Mori, in the Trentino
July 7 Italians attack Gorizia
17 " take Venerdolol and Brizce passes
Oct. 14 Italians take Pregasina, on Trentino frontier
18–Nov. 15 Battle of Gorizia

.4251 **East Prussia**
Feb. 7–21 Masurian winter battle
Feb. 15–18 Battle of Augustowo
20 Fighting on Niemen (or Memel) river
Mar. 17 Russians occupy Memel
21 Germans retake "

Campain of 1915 *continued*

940.4252 **Poland**
Jan. 3 Germans take Bolimov
18 Russians reoccupy Plotzk (Plock)
Feb.-July Struggle for Przasnysz
Feb. 1 Germans retake Borjimow (Borzymow)
2–3 Russians advance on Warsaw
June 29 Germans take Tomaszow
July 1–Oct. 21 Southern drive
July 1–14 2d battle of Krasnik
July 2 Austrians take Krasnik
15–24 Battle of Sokal
16–19 " " Krasnystaw
30 Germans take Kholm (Cholm) and Lublin
Aug. 5–8 Battle at Lubartow
12 Germans take Siedlce
Oct. 21 Austro-Germans defeated at Novo Alexinetz
July 15–Aug. 22 Northern drive Battles of the Narew
July 15–17 Battle of Bogate
22–25 Battles of Rozhan and Kamionka
23–25 Battle of Pultusk
26–Aug. 3 Battle of Orz (or Goworowo)
Aug. 5–22 Germans take Warsaw, Ivangorod (Iwangród), Novo Georgiewsk and Osowiec

.4253 **Galicia**
Jan.–May 2 Battles of the Carpathians
Jan. 4 Russians occupy Uzsok pas
27 Austrians take " "
Feb. 1 Battle begins at Bolimov
3 Austrians evacuate Tarnow
24 Russians driven from Bukowina
Mar. 3 Austrians take Stanislau
22 Przemysl surrenderd to Russians
23 Russians take Lupkow pas
31 " penetrate Dukla pas
Ap. 4 Russians take Varecze pas and Smolnik, near Lupkow pas
18 Russians evacuate Tarnow
26 " defeated in Uzsok pas
May 2 Austro-Germans take Dukla pas

Campain of 1915 *continued*

940.4253 **Galicia** *continued*

May 2–June 16 Battles of the Dunajec-San
May 6 Austro-Germans retake Tarnow
6–11 Battles at Sanok and Rzeszów
16 Russians retire to the San
Germans take Jaroslav
24–31 Battle on the Stryj
24–June 6 " of Przemysl
June 3 Teuton forces retake Przemysl
June 12–15 Battles of Mosciska and Lubaczów
June 10 Germans retreat across the Dniester
16–19 Battle of Grodek-Magierow
20 Austro-Germans take Rawa-Ruska
20–22 Battle of Lemberg (or Lvov)
June 20 Austro-Germans take Zólkiew
22 Austrians enter Lemberg
26–30 Battle on the Gnila Lipa
28 Teuton forces retake Halicz
Aug. 28 Germans take Lipsk
Sep. 1 Teuton forces take Brody
7–8 Russians victorius on Sereth river
Dec. 1 Russians retake Czernowitz

.4254 **Russia in Europe (excluding Poland)**

Jan. 1–Mar. 25 Turks meet reverses in the Caucasus
Jan. 3 Russians defeat Turks at Ardahan
4 " victorius at Sarikamysh
15 " take Kirlibaba pas
Mar. 25 Turks defeated at Aradabil
May 8 Germans occupy Libau
July 20–Aug. 17 " take Windau, Mitau and Kovno
Aug. 23–26 Teuton forces take Kovel, Brest, Litovsk, Ossowitz and Olita fortress
31 Austrians take Lutz
Sep. Austro-German offensiv against Rovno
2–18 Germans take Grodno, Dubno, Pinsk and Vilna
24 Russians retake Lutz
28 Germans " "
Oct. 10–24 Operations about the Dvina
Oct. 10 Germans expeld from Garbounovka, near Dvinsk
16 Russians repulst at Gross Eckau
18–24 Germans take Borkowitz and Dahlen
Nov. 14 Russians driven across Styr river

Campain of 1915 *continued*

940.4255 **Rumania**

Oct. 23 Bulgars cros Timok river and occupy Prahova

.4256 **Serbia**

Oct. 6–Dec. 5 Serbia invaded by Austro-Germans and Bulgars
Oct. 8 Serbs evacuate Belgrade
9–14 Austro-Germans take Belgrade, Semendria (Semendrevo) and Pozarevatz
15 Fighting between French and Bulgars at Valandovi
17 " take Egri-Palanka
18 Austro-Germans take Obrenovatz Allies take Strumitza (Strumnitza)
19–22 Bulgars take Vrania (Vranja), Veles and Uskub
23–24 Battle of Kumanovo (Komanova)
25 Austrians take Kladovo
26 Teuton forces take Valjevo
29 Bulgars take Pirot
31 Germans take Kragujevatz
Nov. 3 " " Uzice (Uzhitze, Uzitsha)
5 Bulgars take Nish Germans take Kralievo
7 Germans advance at Kruchevatz (Krusevac)
17 Serbs retire from Prilip and Babuna hights
20 Fall of Novibazar (Novipazar, or Yenibazar)
23 Teuto-Bulgars take Mitrovitsa and Pristina
30 Bulgars take Prisrend
Dec. 5 Austro-Germans and Bulgars occupy Monastir

Oct. 5–Dec. 10 Salonika (Greece) campain operations
Tho Salonika is in Greece, these operations ar included here, as being designd for relief of Serbia
Oct. 5 Allies land in Salonika
6 French advance into Serbia
Dec. 5 Bulgars defeat French on the Vardar
10 Allies, retreating from Serbia, fall back on base at Salonika

.4257 **Montenegro**

Dec. 1 Teuton forces invade Montenegro
6 Germans take Ipek

.4258 **Albania**

Dec. 15 Italians land in Albania
21 " occupy Durazzo

Campain of 1915 *continued*

940.4259 **Turkey in Europe**
Feb. 1915–Jan. 1916 Gallipoli expedition
Feb.-Mar. Dardanelles operations
See also 940.45 Naval history of World war
Ap. 25 Allies land in Gallipoli
May 20 " take Krithia hights
Aug. Operations on Anafarta hights
Aug. 7 New Allied army lands in Gallipoli
Dec. 8 British begin evacuating Gallipoli

.4261 **Turkey in Asia**
Ap. 14 Turks defeated near Basra
June 3 British take Amara
July 25 " " Nasiryeh
Sep. 28 " " Kut-el-Amara
Nov. 22 " " Ctesiphon
30 " Mesopotamian expedition defeated south of Bagdad
Dec. 3 Turks besiege British at Kut-el-Amara
11 Turco-British battle " "

.4264 **Persia**
Jan. 30 Russians take Tabriz from Turks
Dec. 17 " occupy Hamadan
26 " " Kashan

.4266 **Egypt**
Jan. 24 Turks defeated at El Kantara

.4268 **Colonial operations**
Jan. 14 Union forces occupy Swakopmund, German Southwest Africa
Feb. 24 British South African forces occupy Garub, German Southwest Africa
Ap. 20 Union forces take Keetmanshoop, German Southwest Africa
May 12 Gen. Botha occupies Windhuk, German Southwest Africa
June 28 British occupy Ngaundere, Kamerun
July 15 Conquest of German Southwest Africa completed

.427 Campain of 1916

.4271 **Belgium**
Feb. 8–July 18 Trench fighting in Ypres salient
Ap. British take St Eloi

.4272 **Northern France**
July-Nov. Battle of the Somme
July 2–28 British take Fricourt, Pozières and Delville wood
Sep. 3–18 French take Guillemont, Vermondovillers and Deniécourt
26 Allies take Combles and Thiépval
Nov. 7–12 French take Chaulnes and Saillisel
12–18 British drive on the Ancre
Nov. 14–18 British take Beaucourt and Grandcourt

Campain of 1916 *continued*

940.4273 **Eastern France**
Feb. 21-Dec. Battles at Verdun
Feb. 21 Great German attack opens
25 Germans take Douaumont fort
28 French check German advance
Mar. Germans take Forges, Fresnes, Haucourt hill and Malancourt
Ap. 2–3 Germans take and lose Caillettes wood
5 " " Haucourt
May 6 " launch new offensiv
22–24 French retake and lose Douaumont fort
24–June 25 Germans retake Cumières, Vaux fort, Thiaumont and Fleury
June 30 French retake Thiaumont
July 3 Germans " "
Aug. 5–9 Thiaumont contested
18 French retake Fleury
Oct. 24 " " Douaumont fort
Nov. 2 " " Vaux fort

.4274 **Austro-Italian front**
Feb.–June Tyrol
Feb. 21 Italians take Collo, near Trent
Ap. 17 Italians take Col di Lana
May 16–June 20 Successful Austrian offensiv from the Trentino
Mar.–Nov. Isonzo and Carso
Mar. 14 Italians attack on entire Isonzo front
Aug. 1 Italian offensiv against Gorizia (Goeritz)
6 Italians take Monte Sabotino and Monte San Michele
7 Italians gain the Isonzo
9 " take Gorizia
10 " drive Austrians across the Vallone
Sep.–Nov. Italians assume offensiv on the Carso

.4275 **Galicia**
Jan. 1 Russians invade Bukowina
Feb. 9 " take Uscieczko
June 17–23 " " Czernowitz and Bukowina
28–July Battle of Kolomea
July 1 Russians take Kolomea
June 30–July 2 Russians take and lose Tlumacz (Tlumatch)
July 16–Aug. 7 Russians take Sviniusky, Brody and Tlumacz
Aug. 10 Austrians evacuate Stanislau
14–15 Russians take Tustobaby and Jablonitza (Jablonica) pas

Campain of 1916 *continued*

940.4276 **Transylvania**
Sep. 7 Rumanians take Orsova
28–30 Germans defeat Rumanians at Hermannstadt
29 Teuton forces defeat Rumanians at Siba
Oct. 5 Rumanians defeated near Fogaras
Battle in Geisterwald mts
7–9 " of Kronstadt (or Brasov, or Brasso)
Nov. 25 Rumanians lose Orsova

.4277 **Russia in Europe**
Mar. 18–27 Battle of Lake Narocz (Naroch)
June–Aug. Battles around Luck (Lutsk)
June 6–9 Russians take Luck and Dubno
June 13–14 1st battle of Baranovichi (Baranowicze)
July 2–14 2d " " "
20 Russians take Beresteczko
25 3d battle of Baranovichi

.4281 **Rumania**
Sep. 1 Germans, Bulgars and Turks invade Dobruja
6 Germans and Bulgars take fortresses of Turtukai and Tutrakan
9 Rumanians evacuate Silistria
10 Germans and Bulgars take fortress of Silistria
Oct. 22–23 Germans take Constanza (Kustendji)
24–30 Battle of Targul-Jiu
25 Teuton forces occupy Cernavoda
Nov. 20 Austro-Germans take Craiova (Crajova)
23 " " conquer Little Wallachia
24 Rumanians lose Turnu-Severin
Dec. 3 Battle of Arges
6 Germans take Bucharest
8 Rumanians trapt in Prahova valley

.4282 **Serbia**
Aug. 10 Allies bombard and take Doiran
Nov. 19 " enter Monastir

.4283 **Bulgaria**
Oct. 2 Rumanians routed

.4284 **Montenegro**
Jan. 10 Austrians take stronghold on Mt Lovchen (Lovtchen)
13 Austrians take Cettinje

.4285 **Greece**
Jan. 11 French land at Corfu
Aug. 17 Teuton forces take Terina from Serbs
Bulgars take Florina
25 " " Startila and Kavala (Kavalla, Kavallo) forts
Sep. 14 Bulgars take Kavala Serbs take Malkenidse from Bulgars
18 Allies retake Florina
Dec. 1 " take possession of Piraeus

Campain of 1916 *continued*

.940.4288 **Albania**
Jan. 23 Austro-Hungarians occupy Scutari
25 Austrians take San Giovanni di Medua
Feb. 27 " " Durazzo

.4289 **Turkey in Europe**
Jan. 9 Allies evacuate Gallipoli

.4291 **Turkey in Asia Asia Minor**
Feb. 13 Turks defeat British near Konia (Koniah, Konieh)
Ap. 18 Russians take Trebizond

.4292 **Turkey in Asia Armenia**
Jan. 11–Aug. 24 Russian campain in Armenia
Feb. 16–Mar. 16 Russians take Erzerum, Mush, Bitlis and Mamakhatun
Mar. 31 Russians evacuate Mamakhatun
July 12 Russians retake Mamakhatun
25 Russians take Erzingan (Erzhingian, Erzinjan)
Aug. 8 Russians evacuate Bitlis and Mush
24 Russians retake Mush

.4293 **Turkey in Asia Mesopotamia**
Jan. 8–Dec. 13 British campain in Mesopotamia
Jan. 8 British defeat Turks at El Amara
Ap. 5 " take Felahie
9 " repulst near Felahie
29 " surrender Kut-el-Amara
Nov. 31 " take Basra

.4294 **Persia**
Feb. 27 Russians take Kermanshah
Mar. 19 " enter Ispahan
Aug. 11 Turks drive Russians from Hamadan

.4296 **Egypt**
Ap. 23 Turks take Quatia
Aug. 3 " defeated at Romani, on Suez canal
Dec. 21 British occupy El Arish, Sinai peninsula
23 " attack Turks at Magdhaba

.4298 **Colonial operations**
Feb. 18 Allies conquer Kamerun
Sep. 4 British take Dar-es-Salaam, German East Africa
11 Belgians take Tabora, German East Africa

Campain of 1917

.431 **Belgium Jan.-June 7**

.4311
June 7 Battle of Messines Explosion of mine
British take Messines-Wytschaete salient

.4312 **Belgium June 8-July 30**
June-Dec. 2d battle of Flanders

Campain of 1917 *continued*

940.4313 **Belgium July 31-Dec.**
July 31–Nov. 6 3d battle of Ypres
July 31 Allies advance from Ypres
Aug. 10 " take Bixschoote
16 British " Langemarck
Sep. 25 " resume drive on Ypres-Menin road
26 British take Zonnebeke
Oct. 4–10 Allies advance on Passchendaele ridge
Nov. 6 Canadians take Passchendaele

.4314 **Northern France Jan.-Mar.**
Feb. 7 British take Grandcourt
24 Germans retreat from Ancre river
28 Allies take Puisieux-au-Mont and Tilloy British take Gommecourt
Mar. 17 British attack along Siegfried or Hindenburg line Allies retake Bapaume French take Roye British take Chaulnes
18 French take Noyon British take Péronne and Nesle

.4315 **Northern France April-May 8**
Ap. 9–May 8 2d battle of Arras
Ap. 9 Canadians take Vimy ridge
11 British " Monchy
28 Canadians " Arleux-en-Gohelle
May 3 Allies take Bullecourt British take Fresnoy
8 Germans retake Fresnoy

.4316 **Northern France Ap. 16-Nov. 2**
Ap. 16–May 6 2d battle of the Aisne
Ap. 18 French take Vailly
May 4 " " Craonne
5 " " Chemin des Dames
6 " occupy Craonne ridge
June 26–Aug. 21 Operations round Lens
Aug. 15 Canadians take Hill 70
Oct. 17–Nov. 2 Allies renew Aisne offensiv
Oct. 23–26 Battle of Malmaison
Oct. 23 French take Malmaison fort Germans defeated on the Ailette
Nov. 2 Germans evacuate Chemin des Dames; retreat across the Ailette

.4317 **Northern France Nov. 3-Dec.**
Nov. 20–Dec. 13 Battle of Cambrai Introduction of tank warfare
Nov. 20 British smash Hindenburg line from Arras to St Quentin
26 British take Bourlon wood
30 Germans counterattack in Cambrai salient
Dec. 2 Germans retake Masnières

Campain of 1917 *continued*

940.4318 **Eastern France**
Aug. 17–Sep. 8 French win important victories at Verdun

.4321 **Austro-Italian front Trentino**
June 10 Italians take Agnelio pas

.4322 **Austro-Italian front Isonzo-Caporetto activities Jan.-June**
May 12–Oct. Italians advance against Austro-Hungarians
May 23 Italian success on Carso plateau
June 5 " defeat " " "

.4323 **Austro-Italian front Isonzo-Caporetto activities July-Sep.**
Aug. 19 Italian activity renewd on Julian and Carso fronts Italians invade Bainsizza plateau
24 Italians take Monte Santo
29 " gain complete control of Bainsizza plateau
31 Italians gain foothold on Monte San Gabriele
Sep. 6 Austrians drive Italians from " " "
14 Italians take summit of " " "
29 " strengthen control of Bainsizza plateau

.4324 **Austro-Italian front Isonzo-Caporetto activities Oct.-Dec.**
Oct. 23–Nov. Battle of Caporetto Austro-Germans counterattack
Oct. 28–30 Austro-Germans take Gorizia (Goeritz), Cividale and Udine
Nov. 4 Austro-Germans cros Tagliamento river
9 Italians make a stand on the Piave
10 Austro-Hungarians cros the Piave
12 Italians evacuate Fonzaso
13 Austro-Germans repulst on the Piave
Dec. 19 Italians retake Monte Asolano
23 Germans take Col del Rosso
30 French retake Monte Tomba

.4325 **Galicia**
July 1–16 Russians assume offensiv under Kerensky
July 1–6 Battle of Brzezany
July 1 Russians take Koniuchy
10 Russians take Halicz
12–16 " " and lose Kalusz

Campain of 1917 *continued*

940.4325 **Galicia** *continued*
July 19–Aug. 3 Teuton forces advance against Russians
July 19–26 Battle of Zborów
July 22 Germans take Tarnopol
23–Aug. 3 Russians retreat
July 23 Germans retake Halicz and Stanislau
Aug. 3 Austro-Germans occupy Czernowitz

.4326 **Russia in Europe**
Ap. 3–Dec. 12 German offensivs
Ap. 3 Russians defeated on Stokhod river
Aug. 21–Dec. Great German offensiv on Riga front
Sep. 3 Germans take Riga
23 " " Jacobstadt
Oct. 18 Russians evacuate Reval (Revel)

.4327 **Rumania**
Jan. 4 Russians driven out of Dobruja
5–7 Germans take Braila and Fokshani (Focshani, Foscani) fortress
8 Battle of Sereth river
Aug. 6 " " Marasesti (Marasheshti)

.4328 **Serbia**
Ap.–May Offensiv in Doiran sector British attack Bulgarian positions

.4331 **Turkey in Asia Palestine**
Oct. 31–Dec. 30 British advance in Palestine
Oct. 31 British take Beersheba
Nov. 6 " " Gaza
8 Turks evacuate Wadi Hesi
9 British take Ascalon
16 " " Jaffa (Joppa)
Dec. 6 " " Hebron
9 " " Jerusalem
30 " " Bireh

.4332 **Turkey in Asia Armenia**
Mar. 18 Russians take Van
May 2 " evacuate Mush

.4333 **Turkey in Asia Mesopotamia**
Feb.-Oct. British advance in Mesopotamia
Feb. 16 British drive Turks from Dahra Bend
24 " retake Kut-el-Amara
Mar. 4 " reach Bakuba
11 " take Bagdad
May 1 " defeat Turks at Jebel Hamrin
Sep. 29 " take Ramadie

.4334 **Persia**
Mar. 3 Russians take Hamadan
14 " " Kermanshah
22 " " Kerind from Turks

Campain of 1917 *continued*

940.4335 **East Asia**
Dec. 26 Chinese defeat Russians at Harbin, Manchuria

.4338 **Colonial operations**
Dec. 1 British complete conquest of German East Africa

.434 Campain of 1918 Belgium and France Final German offensivs Jan.–July

.4341 **1st German offensiv: 1st phase of battle of Picardy, or 2d battle of the Somme Mar. 21–Ap. 6**
Mar. 21 Germans take Maissemy and Ronssoy; bombard Paris with long range gun
22 Germans take Epéhy, Le Verguier and Tergnier
23 " break thru at St Quentin and Monchy
24 " take Chauny, Ham and Péronne
25 " " Bapaume, Barleux, Nesle and Noyon; reach Courcellette
26 Germans take Roye
27 " " and lose Albert, and take Proyart and Montdidier British retake Chipilly and Morlancourt
31 Germans reach the Marne

.4342 **2d German offensiv: 2d phase of battle of Picardy, or battle of the Lys Ap. 7–May 25**
Ap. 9 Germans take Laventie and Richebourg l'Avoué
10 Germans take Armentières, Estaires and Ploegsteert wood
11 Germans take Merville, Messines and Nieppe British withdraw from Hill 63
12 Germans take Locon
12–16 British withdraw from Passchendaele ridge, in Ypres salient
14 Germans take Neuve-Eglise
15 " " Bailleul and Villers-Bretonneux
16 Germans occupy Spanbroekmolen and Wytschaete
24 British retake Villers-Bretonneux
26 Germans take Mont Kemmel
May 12 French retake Hill 44

.4343 **3d (or Aisne and Marne) German offensiv May 27–June 8**
May 27 Germans cros Vesle river at Fismes
28 Americans take Cantigny
29 Germans " Soissons Allies abandon Fère-en-Tardenois and Ville-en-Tardenois
June 3 French retake Choisy
4 Germans driven back across the Marne
6 Allies take Bouresches
7 " " Neuilly-la-Poterie

940.434 Campain of 1918 Belgium and France Final German offensivs *continued*

.4344 **4th German offensiv: battle of Noyon or battle for Compiègne June 9-July 14**

June 9 Germans reach Mareuil
10 Americans take Belleau wood Germans take Belloy, Méry and St Maur
11 French abandon Carlepont wood and Ourscamp forest
15 Germans driven out of Coeuvres-et-Valsery
July 1 Americans take Beau Repaire farm, Berzy-le-Sec, Vierzy and Vaux
4 Allies take Hamel and Vaivre wood
8–11 British victories in Picardy

.4345 **5th German offensiv: 2d battle of the Marne July 15–18**

.435 Campain of 1918 Belgium and France Allied offensiv: 1st period July 18–Sep. 24

.4351 **Marne salient July 18–Aug. 4**

July 18 Americans take Torcy
19 Germans begin retreat across the Marne British take Meteren
21 Allies take Bouilly, Château-Thierry and Mont St Père hights Americans take Chartèves and Jaulgonne
23 French take Aubvillers, Mailly-Raineval and Sauvillers
24 Americans retain Epieds

.4352 **Marne salient *continued* July 25-Aug. 4**

July 25 Allies take Coincy French take Hill 141 and Oulchy-la-Ville
26 French take Oulchy-le-Château
27 Americans reach the Ourcq
28 Allies cros the Ourcq
29 " take Fère-en-Tardenois Americans take Hill 230
30 Americans take Sergy and Seringes
Aug. 1 Allies " Cramoiselle Franco-American forces take Cierges
2 Allies take Ville-en-Tardenois, Coulonges, Gueux and Thillois French occupy Soissons
4 Allies take Fismes

.4353 **Somme salient Aug. 5-Sep. 12**

Aug. 8–25 Albert-Montdidier salient Battle of Amiens
Aug. 10 Allies take Chipilly ridge, Lihons, Montdidier and Morlancourt
11 Allies take Proyart
13 French " Canny-sur-Metz
14 " " Ribécourt
15 Canadians " Daméry and Parvillers
19 French " Le Hamel

940.435 Campain of 1918 Belgium and France Allied offensiv: 1st period *continued*

.4353 **Somme salient Aug. 5-Sep. 12 *continued***

Aug. 21 Allies take Mont Kemmel British take Ablainzeville, Achiet-le-Grand, Achiet-le-Petit, Beaucourt, Bucquoy, Courcelles and Moyenneville French take Camelin, Cuts, Pontoise and Lassigny Battle of Bapaume
22 British take Albert (Ancre)
24 " " Bray and Thiépval
25 " " Contalmaison, Le Sars, Mametz and Martinpuich

.4354 **Somme salient *continued* Aug. 26-Sep. 6**

Aug. 27 French take Roye
28 " " Chaulnes
29 " " Noyon British take Combles Germans lose Bapaume
30 Allies take Cuffies Americans take Chavigny and Juvigny
Sep. 1 British take Bouchavesne, Péronne and Rancourt
6 French take Chauny and Ham

.4355 **Somme salient *continued* Aug. 26-Sep. 12 Battle of the Scarpe**

Aug. 26 Canadians take Wancourt and Monchy-le-Preux
27 Canadians take Cherisy, Vis-en-Artois and Bois-du-Sait Scots take Fontaine-les-Croisilles, Roeux and Gavrelle
28 Canadians take Croisilles, Boiry and Pelves
30 British " Bullecourt
Sep. 2 " attack Drocourt-Quéant line
3 " take Quéant
4 Germans evacuate Lens
12 British take Havrincourt and Trescault

.4356 **Lys salient Aug. 5-Sep. 11**

Aug. 5 British take La Bassée
5–7 " advance; take Locon and Outtersteene
19 British take Merville
30 " " Bailleul
31 " " Mont Kemmel
Sep. 2 Americans take Voormezeele British take Neuve-Eglise

.4357 **St Mihiel salient (Allies) Sep. 12–24**

Sep. 12–14 Battle of St Mihiel
Sep. 12 Americans destroy German St Mihiel salient
15 British take Maissemy
20 " " Moeuvres

940.436 Campain of 1918 Belgium and France Allied offensiv: 2d period Sep. 25–Nov. 11

.4361 **Argonne-Meuse offensiv: 1st phase Sep. 25-Oct. 10**

Sep. 26 Americans smash Hindenburg line in the Argonne; take Cheppy, Gercourt, Varennes and Montfaucon; advance at Guicy French take Butte de Mesnil, Navarin farm and Servon

27–28 Americans take Exermont, Ivoiry, Epinonville, Charpentry, Very, Marcheville and Rieville

28 Allies take Poelcapelle French take Chemin des Dames, Fort Malmaison and Somme-Py British retake Passchendaele

29 Americans take Brieulles-sur-Meuse Belgians take Dixmude

30 Allies take Romagne Americans take Apremont

.4362 **Argonne-Meuse offensiv: 1st phase *continued* Sep. 26–Oct. 10 Battle of Cambrai-St Quentin**

Sep. 27 Americans cros Canal du Nord

28 " take Marcoing, Fontaine-Notre-Dame, Cantaing and Noyelles

29 Americans take Bellicourt, Nauroy, Oppy and Biache–St Vaast

30 Allies take Thornigny and Le Tronquoy

Oct. 2 Allies take St Quentin

9 " " Cambrai

10 " " Le Cateau and St Souplet

.4363 **Argonne-Meuse offensiv: 2d phase Oct. 1–31**

Oct. 2 Belgians take Handzaeme and Hooglede British take La Bassée and Rolleghemcapelle

2–9 Americans drive Germans from Reims region

3 Germans evacuate Armentières and Lens

4 " take Gesnes

5 French " Brimont fort

7 Allies " Berry-au-Bac and St Etienne Americans " Brancourt, Chatel-Chéhéry, Consenvoye, Haumont woods and Prémont

8 Allies gain complete possession of Siegfried zone or Hindenburg line

9 Americans take Fléville British take Ramillies

.4364 **Argonne-Meuse offensiv: 2d phase *continued* Oct. 10–17**

Oct. 11 Americans take Vaux-Andigny

12 French " Vouziers

13 " " La Fère, Laon and St Gobain Massif

14 Allies take Roulers (Rousselaere) Americans encounter Kriemhilde line; take St Juvin French take Sissonne

940.436 Campain of 1918 Belgium and France Allied offensiv: 2d period *continued*

.4364 **Argonne-Meuse offensiv: 2d phase Oct. 10–17 *continued***

Oct. 15 Allies take Olizy, Termes, Thourout and Comines British take Menin

16 Americans take Grandpré British take Wervicq and Wevelghem

17 Allies take Bruges and Ostend Americans take Côte de Chatillon British take Douai and Lille

.4365 **Argonne-Meuse offensiv: 2d phase *continued* Oct. 17–31**

Oct. 17–25 Battle of Selle river

18 Allies take Blankenberghe, Thielt, Wassigny and Zeebrugge British take Roubaix and Tourcoing Americans take Banthe-ville

19 British take Denain

26 " " Englefontain and Famars

31 Americans " Bellejoyeuse farm

.4366 **Argonne-Meuse offensiv: 3d (final) phase Nov. 1–11**

Nov. 1 Americans take Aincreville, Doulcon, Andevanne and Landres et St Georges British take Valenciennes

1–11 Battle of the Sambre

2 Americans take Busancy

3 " " Authe, Chatillon-sur-Bar, Fosse, Nouart, Halles and Spitaals Bosschen

4 British take Landrecies

5 Allies break Hunding line French take Guise Americans cros the Meuse; take Liny-devant-Dun and Milly-devant-Dun

6 French take Rethel Americans take Woevre hights

7 British reach Bavai Americans enter Sedan

9 Allies take Tournai French take Hirson British take Maubeuge

10 French take Mézières and Charleville Belgians recover Ghent

11 Canadians take Mons

.4371 **Austro-Italian front Jan.-May**

Jan. 2–Feb. 11 Austro-German retreat

22–24 " " attacks in Trentino repulst

28 Italians advance on Asiago plateau; victorius on Col di Chelo (Col d'Echele) and on Col del Rosso

29 Italians victorius on Monte di Val Bella

May 10 Italians take Monte Corno

16 " begin new offensiv

27 " take summit of Monte Zignolon, in Trentino

Campain of 1918 *continued*

940.4372 **Austro-Italian front June-July**

June 15–16 Austrian offensiv opend on Asiago plateau and in Monte Grappa region
19 French take Bertigo and Pennas
19–24 Austrians driven across the Piave
29 Italians take Sasso Rosso and Monte di Val Bella
30 Italians take Col del Rosso and Col di Chelo (Col d'Echele)
July 16 Last of Austrians driven across the Piave
19 Italians take Castalunga
20 " reoccupy Corno di Cabento and Monte Stabiel
24 Great Italian offensiv against Austrians Italians take Monte Solarolo French take Monte Sisemol

.4373 **Austro-Italian front Aug.-Nov.**

Oct. 24–Nov. 4 Italians crush Austro-Hungarian armies on Venetian front, pushing them back on Friuli plain
28 Allies take Alano hights
29 Italians " Conegliano, Monte Cosen, Vittorio and Valdobbiadene
31 Italians reach Ponte nell' Alpi
Nov. 3 " take Trent, Udine, Trieste and Rovereto

.4374 **Russia in Europe**

Jan. 28 Rumanians take Kishineff
31 Bolsheviki " Kiev
Feb. 1 " " Odessa and Orenburg
9 Poles " Smolensk from Bolsheviki
15 " defeat Bolsheviki at Bobriusk
18 Germans take Dvinsk (Dunaburg) and invade Ukraine
20 Turks begin offensiv in the Caucasus
21 Germans take Rovno fortress and Minsk
25 " " Reval (Revel) and Pskoff (Pskov)
Mar. 2 Germans and Ukrainians occupy Kiev (Kieff)
5 " occupy Narva
13 " enter Odessa
31 " advance in Ukraine; take Poltava
Ap. 13 Turks occupy Batum
27 " enter Kars
May 1 Germans occupy Sevastopol
19 Moslems and Bolsheviki battle at Baku
July 8 Czechoslovaks take Nikolsk
Aug. 2 Allies take Archangel
Sep. 11 Czechoslovaks defeat Bolsheviki near Ekaterinburg

.4375 **Finland**

Feb. 6 White guards occupy Uleaborg
Mar. 14 Germans occupy Abo
Ap. 13 " " Helsingfors

Campain of 1918 *continued*

940.4376 **Serbia**

Sep. 15 Allied offensiv between Vardar river and Lake Doiran begins
24 French take Prilep
26 Serbs and British take Kochana
27 " " " " Veles (or Koprülü)
Oct. 12 " take Nish (Nisch, Nissa)
16 " " Kragujevatz

.4377 **Bulgaria**

Sep. 26 British and Greeks invade Bulgaria
27 " take Strumiza (Strumnitza)

.4378 **Albania**

July 11 French and Italians occupy Berat
20 Allies take Meran and Mt Tizec
Oct. 1 Italians retake Berat (lost in Aug.)
7 " occupy Elbasan (El Bassan)
14 " take Durazzo

.4381 **Turkey in Asia Asia Minor**

Feb. 24 Turks take Trebizond
Mar. 11 " " Erzerum
Oct. 1 British occupy Damascus
7 " take Beirut
26 " " Aleppo

.4382 **Turkey in Asia Palestine**

Jan. 31 British penetrate Mukhmas
Feb. 21 " take Jericho
Sep. 20 " occupy Nazareth
23 " take Es-Salt
24 " " Haifa and Acre
25 " occupy Tiberias
29 " take Gaza
Oct. 6 " occupy Zahlek and Rayak
7 " " Sidon
13 " " Tripoli
15 " " Homs

.4383 **Turkey in Asia Mesopotamia**

Mar. 26 British advance in Mesopotamia
28 " defeat Turks at Hit
Ap. 27 " take Kirfa
May 7 " " Kirkuk
Oct. 28 " " Kalat Shergot
30 Entire Turkish force surrenders on Tigris

.4384 **Persia**

June 14 Turks take Tabriz

.4385 **East Asia Siberia**

Ap. 5 British and Japanese land at Vladivostok
June 7 Czechoslovaks take Chita
8 " reach Vladivostok
Aug. 15 Americans land at "
22 Allies advance in Siberia
Sep. 5 Japanese occupy Kharbarovsh

.4388 **Colonial operations**

Nov. 25 Remnants of German forces in German East Africa surrender

.439 Armistice Nov. 11, 1918

.4393 **Celebrations**

940.44 Air warfare

.441 **Air servis**
Observation and scouting, artillery detecting, range finding; signaling; bombing, land fighting, naval fighting, antisubmarine; coast patrol

.442 **Organized raids**
Special raids ar preferably clast under 940.444–.448

2 On England
3 " Germany
4 " France

.443 **Air servis bases**

.444 **Events of 1914**
Aug. 30 German raids on Paris
Oct. 8 British attack Dusseldorf and Cologne
Dec. 24 German air raid on England
25 British ships with hydroplanes raid Cuxhaven
See also 940.454

.445 **Events of 1915**
Jan.-Dec. German raids on England
Feb. 12 British aircraft raid Belgian coast
June 12 Italian aviators destroy arsenal at Pola
See also 940.4248
15 French bombard Karlsruhe
Oct.-Dec. " " Metz

.446 **Events of 1916**
Jan.-Dec. Paris raided by zeppelins
Battles of Verdun See also 940.4273
Jan. 29–31 England raided by zeppelin and airplanes
Mar. 15 Italians bombard Trieste See also 940.4274
20 Allied airplanes bombard Zeebrugge
Sep. 5 Germans bombard Constanza See also 940.4281
26 " " Bukarest
Nov. 10 1st general air battle of the war
See also 940.4272

.447 **Events of 1917**
Ap. 7 Air battle over Hindenburg line
See also 940.4314
24 2d battle of Arras See also 940.4315
May 18 Battle in the Adriatic See also 940.457
July 28 Germans raid Paris
Oct. 1 " " London
20 German zeppelins and French planes battle
23–26 French aviators fight 611 aerial engagements during battle of Malmaison
See also 940.4316
Dec. 27 Engagement on Italian front
See also 940.4324

940.448 **Events of 1918**
Jan. Germans raid Paris
Mar. 1 " " Toul See also 940.4341
25 Allies attack Nesle and Bapaume
See also 940.4341
May 23 French attack Ghent See also 940.4345
July 19–20 Italian victory at Piave See also 940.4372
Aug.–Nov. Successful fighting by allied fliers: Albert Montdidier salient (see also 940.4353); Ludendorff offensiv, Marne salient (see also 940.4343); Reims offensiv
Sep. 23 Allies bomb Constantinople

.449 **History of air warfare**
Including special fliers and airships. Divide like 940–999

.45 Naval history

.451 **Submarine warfare**

2 **German use of submarine ('U' boat)**
War on neutrals; blockade; attack on merchantmen and cruisers of Allies

3 **Use of submarine by other nations**

4 **Important events**
1915 Feb. 18 Germans begin organized submarine warfare
May 7 Lusitania sunk by German submarine
See also 940.455
1916 Mar. 24 Sussex sunk without warning
1917 Jan. 31 Germany announces unrestricted submarine warfare
1918 Feb. 16 Raid on Dover

6 **Antisubmarine warfare**
Aircraft, camouflage, chasers, mine fields, nets, 'Q' or mystery boats, etc.

.452 **Blockades and blockade running**
Submarine blockade, German war zone, British embargo and blockade, contraband

.453 **Naval bases**
British: China, East Indies, Cape of Good Hope, New Zealand, Australia
French: Toulon, Dunkirk, Brest, Calais, Cherbourg
German: Zeebrugge, Wilhelmshaven, Helgoland, Ostend, Kiel, Cuxhaven, Borkam

.454 **Events of 1914**
Aug. 28 British victory in Helgoland bight
Oct. 19 " bombard Nieuport See also 940.4211
29 Turkish cruisers bombard Theodosia and Odessa
Nov. 1 German victory in the Pacific, off Chilean coast, battle of Coronel
3 German raid into English waters
10 " cruiser Emden caught and destroyed at Cocos iland
Dec. 8 British victory off Falkland ilands
16 German warships bombard West Hartlepool, Scarborough and Whitby
25 British ships with hydroplanes raid Cuxhaven
See also 940.444

940.455 **Events of 1915**
- Jan. 24 British victory in North Sea, off Dogger bank
- Feb. 2–25 Anglo-French squadron bombards Dardanelles
  See also 940.4259
- May 7 Lusitania sunk by German submarine
  Preferably clast in 940.451
- June 2 British on Tigris secure surrender of Kut-el-Amara
- Sep. 24 British bombard Zeebrugge
- Oct. Allies " Bulgarian coast

.456 **Events of 1916**
- Ap. 17 Russians bombard Trebizond See also 940.4291
- May 31 British victory off Jutland
- Aug. 9 Italians take Gorizia See also 940.4274

.457 **Events of 1917**
- May 14–18 Battle in the Adriatic See also 940.447
- Oct. 18 " " Gulf of Riga

.458 **Events of 1918**
- Jan. 20 British bombard Ostend
- Oct. 3 Austrian naval base and warships at Durazzo destroyd
- 15–17 British warships enter Ostend See also 940.4364

.46 Celebrations, commemorations
Usually better clast with event commemorated. For American patriotic societies of this war, see 369.186

.461 War meetings
.463 Flag presentations
.464 Decorations: presentation
.465 Monuments, memorials
General, of the war or a country's part in it; but clas memorials of a special event with that event
- 4–9 **By country** Divided like 940–999

.467 Rolls of honor Lists of ded
.47 Prisons, hospitals, charities
.472 Prisons
Divided like 940–999 and including internment camps
.473 Exchange of prisoners
.475 Medical department, surgeons, nurses
See also 616 and 617
- 2 **Sanitary affairs**
- 3 **Ambulance companies**
- 4–9 **By country maintaining** Divided like 940–999

940.476 Hospitals, hospital sketches
- 34–39 **By country in which located** Divided like 940–999
- 4–9 **By country maintaining** " " "

.477 Welfare work
- 1 **Red Cross**
- 2 **Salvation Army**
- 3 **Y M C A**
- 4 **Y W C A**
- 5 **Knights of Columbus**
- 6 **Young Men's Hebrew ass'n**
- 7 **Other: college units, etc.**
- 8 **By country conducting** Divided like 940–999
- 9 **By country in which conducted** Divided like 940–999

.478 Religious life, chaplains, etc.
.48 Personal narrativs, secret servis, propaganda
When relating to some special battle or other event, clas with subject
.481 Entente allies
.482 Central powers
.483 Army life, Entente allies
.484 " Central powers
.485 Secret servis, spies
.487 **German secret servis**
.488 Propaganda
.49 Illustrativ material
Subdivided like 973.79
For special collections; but most material should be clast with its subject: poetry, drama, etc. with the literatures to which they belong

.5 **Later 20th century**
Including works on 20th century as a whole

941 Scotland

Period divisions

.01	Gaelic period	–1097
.02	English period	1097–1314
	Struggle for national freedom	
.03	Independent kingdom	1314–1424
.04	The Jameses	1424–1557
.05	Reformation	1557–1603
.06	Union of crowns and parliaments	1603–1707
.07	Hanover	1707–1837
.08	Later Hanoverian	1837–
.09		

Geografic divisions

.1 **Northern Scotland**
.11 Shetland .12 Orkney .13 Caithness .14 Sutherland .15 Cromarty .16 Ross .17 Hebrides

.2 **North central Scotland**
.21 Inverness .22 Nairn .23 Elgin .24 Banff .25 Aberdeen .26 Kincardine

941.3 **South central Scotland**
.31 Forfar .32 Perth .33 Fife .34 Kinross .35 Clackmannan .36 Sterling .37 Dumbarton .38 Argyll .39 Bute

.4 **Southern Scotland**
.41 Renfrew .42 Ayr .43 Lanark .44 Linlithgow .445 Edinburgh .45 Haddington .455 Berwick .46 Peebles .465 Selkirk .47 Roxburgh .48 Dumfries .49 Kirkcudbright .495 Wigton

941.5 Ireland

Period divisions

.51	Early history	–1086
.52	Separate kingdoms	1086–1172
	Conquest by Henry 2	
.53	Plantagenet	1172–1399
.54	Lancaster and York	1399–1485
.55	Tudors	1485–1603
.56	Stuarts	1603–91
	Closing with treaty of Limerick	
.57	Hanover	1691–1801
	Closing with the union	
.58	19th century	1801–1900
.591	Early 20th century	
	Government of Ireland act, 1920	
	Northern Ireland	1920–
	Southern Ireland	1920–22
	Irish Free State act, 1922	
	Irish Free State	1922–

Geografic divisions of Ireland

941.6 **Ulster**
.61 Antrim .62 Londonderry .63 Donegal .64 Tyrone .65 Down .66 Armagh .67 Monaghan .68 Fermanagh .69 Cavan

.7 **Connaught**
.71 Leitrim .72 Sligo .73 Mayo .74 Galway .75 Roscommon

.8 **Leinster**
.81 Longford .815 West Meath .82 Meath .825 Louth .83 Dublin .84 Wicklow .85 Kildare .86 King's co. .87 Queen's co. .88 Carlow .885 Wexford .89 Kilkenny

.9 **Munster**
.91 Waterford .92 Tipperary .93 Clare .94 Limerick .95 Cork .96 Kerry

942 England

Including works on Great Britain

Period divisions

For specially minute work the 6th figure printed for each soveren may be used; e. g. Henry 7 is 942.051

.01 **Anglo-Saxon** B. C. 55-A. D. 1066
Prehistoric, Roman, British, Danish

.02 **Norman** 1066–1154
1 William 1 *1066-87* 2 William 2 *1087–1100* 3 Henry 1 *1100–35* 4 Stephen *1135–54*

.03 **Plantagenet** 1154–1399
1 Henry 2 *1154–89* 2 Richard 1 *1189–99* 3 John *1199–1216* 4 Henry 3 *1216–72* 5 Edward 1 *1272–1307* 6 Edward 2 *1307–27* 7 Edward 3 *1327–77* 8 Richard 2 *1377–99*

942.04 **Lancaster and York** 1400–85
Wars of the roses 1455-85 (Lancaster, red; York, white)
1 Henry 4 *1399–1413* 2 Henry 5 *1413–22* 3 Henry 6 *1422–61* 4 Edward 4 *1461–83* 5 Edward 5 *1483* 6 Richard 3 *1483–85*

.05 **Tudor** 1485–1603
1 Henry 7 *1485–1509* 2 Henry 8 *1509–47* 3 Edward 6 *1547–53* 4 Mary *1553–58* See also 272.6 5 Elizabeth *1558–1603* See also 272.7

.06 **Stuart** 1603–1714
1 James 1 *1603–25* 2 Charles 1 *1625–49* 3 Commonwelth *1649–53* 4 Oliver Cromwell *1653–58* 5 Richard Cromwell *1658–59* 6 Charles 2 *1660–85* 7 James 2 *1685–88* 8 William 3 *1689–1702* 9 Anne *1702–14;* War of Spanish succession

.07 **Hanover** 1714–1837
1 George 1 *1714–27* 2 George 2 *1727–60* 3 George 3 *1760–1820* 4 George 4 *1820–30* 5 William 4 *1830–37*

.08 **Later Hanoverian** 1837–
1 Victoria *1837–1901* 2 Edward 7 *1901–10* 3 George 5 *1910–*

Geografic divisions

942.1 **London county Middlesex**
.11 London north of Thames: .12 Central London London city, Finsbury, Holborn .13 West London Westminster, Chelsea, Fulham, Hammersmith, Kensington, Paddington .14 North London St Marylebone, Hampstead, St Pancras, Islington, Stoke Newington, Hackney .15 East London Shoreditch, Bethnal Green, Poplar, Stepney **.16 London south of Thames:** Southwark, Bermondsey, Deptford, Greenwich, Woolwich, Lewisham, Camberwell, Lambeth, Battersea, Wandsworth **.17 Environs of London** **.19 Middlesex**

.2 **Southeastern Thames river**
.21 Surrey .23 Kent .25 Sussex .27 Hants .28 Isle of Wight .29 Berks

.3 **Southwestern**
.31 Wilts .33 Dorset .34 Channel ilands .35 Devon .37 Cornwall .38 Somerset

.4 **West Midland**
.41 Gloucester .43 Monmouth .44 Hereford .45 Salop .46 Stafford .47 Worcester .48 Warwick

.5 **North and South Midland**
.51 Derby .52 Notts .53 Lincoln .54 Leicester .545 Rutland .55 Northampton .56 Huntingdon .565 Bedford .57 Oxford .575 Buckingham .58 Hertford .59 Cambridge

.6 **Eastern**
.61 Norfolk .64 Suffolk .67 Essex

.7 **Northwestern and Yorkshire**
.71 Cheshire .72 Lancashire .74 Yorkshire

.8 **Northern**
.81 Durham .82 Northumberland .85 Cumberland .88 Westmoreland .89 Isle of Man

.9 **Wales**
.91 Anglesey 92 Carnarvon .925 Merioneth .93 Denbigh .935 Flint .94 Montgomery .95 Cardigan .96 Radnor .965 Brecknock .97 Glamorgan .98 Carmarthen .99 Pembroke

943 Germany and Austria

Period divisions

.01 Formativ period

Wars with Rome Charlemagne *800–814* Louis 1 *814–840* Lothaire 1 *840–843*

.02 Empire before the reformation

1 **Carolingian** *843–911:* Louis 2 *843–876* Charles 2 *876–877* Charles 3 *877–887* Arnulf *887–899* Louis 3 *900–911*

2 House of **Franconia:** Conrad 1 *911–918* House of **Saxony,** *919–1024:* Henry 1 *919–936* Otto 1 *936–973* Otto 2 *973–983* Otto 3 *983–1002* Henry 2 *1002–24*

3 House of **Franconia** *1024–1125:* Conrad 2 *1024–39* Henry 3 *1039–56* Henry 4 *1056–1106* Henry 5 *1106–25* House of **Saxony:** Lothaire 2 *1125–37*

4 House of **Hohenstaufen** *1137–97:* Conrad 3 *1138–52* Frederick 1 *1152–90* Henry 6 *1190–97*

5 House of **Hohenstaufen** and **Interregnum** *1198–1272:* Philip *1198–1208* Otto 4 *1208–12* Frederick 2 *1212–50* Conrad 4 *1250–54* William of Holland *1254–56* Richard of Cornwall *1256–72*

6 Houses of **Hapsburg, Luxemburg,** etc. *1273–1378:* Rodolph 1 *1273–91* Adolphus *1291–98* Albert 1 *1298–1308* Henry 7 *1308–13* Louis 4 *1313–47* Charles 4 *1347–78*

7 **Interregnum** *1378–1437:* Wenceslaus *1378–1400* Rupert *1400–10* Sigismund *1410–37*

8 Albert 2 *1438–39* Frederick 3 *1440–93*

9 Maximilian 1 *1493–1519*

.03 Reformation to 1618 1517–1618

1 Charles 5 *1519–1556* 2 Ferdinand 1 *1556–64* 3 Maximilian 2 *1564–76* 4 Rodolph 2 *1576–1612* 5 Matthias *1612–19*

.04 Disintegration 1618–1705

1 Thirty years' war *1618–48* 2 Ferdinand 2 *1619–37* 3 Ferdinand 3 *1637–57* 4 Leopold 1 *1658–1705*

.05 Rise of Prussia 1705–89

1 Joseph 1 *1705–11* 2 Charles 6 *1711–40* 3 *1740–42* 4 Charles 7 *1742–45* 5 Francis 1 *1745–65* 6 Seven years war *1756–63* 7 Joseph 2 *1765–90*

.06 Napoleonic wars 1789–1815

Leopold 2 *1790–92* Francis 2 *1792–1806* Confederation of the Rhine *1806–15*

.07 Reorganization 1815–66

.08 New German empire 1866–1918

1 North German confederation *1866–71* 2 Franco-German war *1870–71* 3 William 1 *1871–88* 4 Frederick *1888* William 2 *1888–1918* ; World war *1914–19* and downfall of empire

.085 German republic 1918–

Presidency of Ebert *1919–25* Hindenburg *1925–*

Geografic divisions of Germany and Austria

943.1 Prussia and Northern Germany

By peace of Versailles, 1919, most of Posen (.13) and parts of East Prussia (.11) of West Prussia (.12) and Silesia (.14) wer restored to Poland. Danzig (.12) as part of Poland made free city with 729 sq. mi. of territory

.11 East Prussia .12 West Prussia, Danzig .13 Posen .14 Silesia .15 Brandenburg .16 Pomerania .17 Mecklenburg and Lubeck .18 Prussian Saxony .19 Anhalt

.2 Central Germany

.21 Saxony .22 **Thuringia** .23 Saxe-Weimar .24 Saxe-Altenburg .25 Saxe-Gotha-Coburg .26 Saxe-Meiningen .27 Schwarzburg .28 Reuss

.3 Bavaria

.31 Upper Franconia .32 Middle Franconia .33 Lower Franconia .34 Upper Palatinate .35 Lower Bavaria .36 Upper Bavaria .37 Suabia

.4 Southern Germany

In 1919 by peace of Versailles 382 sq. mi. of Rhenish Prussia (.42) including Moresnet, Malmédy and Eupen wer ceded to Belgium, and 783 sq. mi. of Saar valley to France subject to plebiscit in 1934. Alsace (.445) and Lorraine (.45) taken from France in 1871 wer restored. See 944.38

.41 Hesse Darmstadt .42 Rhenish Prussia .43 Palatinate, Rhenish Bavaria .44 Alsace-Lorraine: .445 Alsace .45 Lorraine .46 Baden .47 Wurtemburg .48 *Black Forest* and *Danube* .49 Hohenzollern

.5 Northwest Germany

By peace of Versailles in 1919 part of Schleswig-Holstein (.51) was restored to Denmark

.51 Schleswig-Holstein: .515 Hamburg .518 Helgoland .52 Oldenburg: .525 Bremen .53 Hanover .54 Brunswick .55 Lippe .56 Westphalia .57 Waldeck .58 Hesse-Nassau

.6 Austria

.61 Lower Austria .62 Upper Austria .63 Salzburg .64 Tyrol, Vorarlberg .648 Liechtenstein .65 Styria .66 Carinthia .67 Carniola .68 Istria, Gorizia and Gradisca .69 Dalmatia

.7 Czechoslovakia

Since Oct. 28, 1918, an independent nation; Bohemia, Moravia, Silesia, Slovakia and autonomous Ruthenia

.71 Bohemia .72 Moravia .73 Silesia .74 Galicia (as a result of the World war, 1914–19, restored to Poland) .75 Bukowina (since Nov. 1918 a part of Rumania)

.8 Poland

Including history before the division

Extinct as state from 3d partition in 1795 til 1919, when its soverenty was restored by the peace of Versailles. See also 943.11–.14, 943.73–.74 and 947.4–.5

.9 Transleithania: Hungary, etc.

By the peace of Versailles 1919 the union of Transylvania (.92) with Rumania in 1918 was confirmd; Fiume (.94) was made independent, subject to plebiscit in 4 years (in 1924 assignd to Italy); Slavonia (.93) Croatia (.94) Bosnia (.95) and Herzegovina (.96) wer recognized as part of Jugoslavia (949.7)

.91 **Hungary** .92 Transylvania .93 Slavonia .94 Croatia, Fiume .95 Bosnia and Herzegovina .955 bosnia .96 Herzegovina

944 France

Period divisions

.01 **Early history** –987
Ancient Kelts –59 B. C. Roman dominion 59 B. C.–418 A. D
Merovingian dynasty 428–752 Carolingian 752–987

.02 **Capet and Valois** 987–1589
House of **Capet**
1 Hugh Capet *987–996* Robert 2 *996–1031* Henry 1 *1031–60*
2 Philip 1 *1060–1108* Louis 6 *1108–37* Louis 7 *1137–80*
3 Philip 2 *1180–1223* Louis 8 *1223–26* Louis 9 *1226–70*
4 Philip 3 *1270–85* Philip 4 *1285–1314* Louis 10 *1314–16*
John 1 *1316* Philip 5 *1316–22* Charles 4 *1322–28*
House of **Valois**
5 Philip 6 *1328–50* John 2 *1350–64* Charles 5 *1364–80*
6 Charles 6 *1380–1422* Charles 7 *1422–61*
7 Louis 11 *1461–83* Charles 8 *1483–98* Louis 12 *1498–1515*
House of **Angoulême**
8 Francis 1 *1515–47* Henry 2 *1547–59*
9 Francis 2 *1559–60* Charles 9 *1560–74* Henry 3 *1574–89*

.03 **Bourbon** 1589–1789
1 Henry 4 *1589–1610* 2 Louis 13 *1610–43* 3 Louis 14 *1643–1715;* War of Spanish succession 4 Louis 15 *1715–74*
5 Louis 16 *1774–92*

.04 **Revolution** 1789–1804
1 National assembly *1789–92* 2 First republic *1792–99* 3 Convention *1792–95* 4 Reign of terror. May *1793*–July *1794*
5 Directory *1795–99* 6 **First consulate,** Napoleon *1799–1804*

.05 **First empire** 1804–1815
Napoleon 1 *1804–14* Louis 18 *1814–15* The hundred days, March 20–June 29, 1815

.06 **Restoration** 1815–1848
1 Louis 18 *1815–24* 2 Charles 10 *1824–30* 3 Louis Philippe *1830–48*

.07 **Second republic and second empire** 1848–1870
Revolution of *1848* Second republic, Louis Napoleon, pres *1848–52* Napoleon 3 *1852–70*

.08 **Third republic** 1870–
Franco-German war, Government of national defense *1870–71*
National assembly *1871* Presidency of Thiers *1871–73*
McMahon *1873–79* Grévy *1879–87* Sadi-Carnot *1887–94*
Casimir Périer *1894–95* Faure *1895–99* Loubet *1899–1906*
Fallières *1906–13* Poincaré *1913–20,* World war *1914–19*
Deschanel *1920* Millerand *1920–24* Doumergue *1924–*

Geografic divisions of France

.1 **Brittany Maine Anjou**
.11 Finistère .12 Côtes du Nord .13 Morbihan .14 Loire Inférieure .15 Ille et Vilaine .16 **Maine:** Mayenne .17 Sarthe .18 **Anjou:** Maine et Loire

.2 **Normandy Picardy**
.21 Manche .22 Calvados .23 Orne .24 Eure .25 Seine Inférieure .26 **Picardy:** Somme .27 **Artois:** Pas de Calais .28 **French Flanders:** Nord

944.3 **Champagne Ile de France Lorraine**
.31 Ardennes .32 Marne .331 Aube .332 Haute Marne .34 **Ile de France:** Aisne .35 Oise .36 Seine et Oise, Paris .37 Seine et Marne .38 **Lorraine** (Alsace-Lorraine): .381 Meuse .382 Meurthe et Moselle .383 Alsace (But use .38 for Alsace and Lorraine together) See also 943.44–.45 .39 Vosges

.4 **Burgundy Franche Comté Savoy**
.41 Yonne .42 Côte d'Or .43 Saône et Loire .44 Ain .45 **Franche Comté:** Haute Saône, Belfort .46 Doubs .47 Jura .48 **Savoy:** Savoie .49 Haute Savoie

.5 **Orléans, etc. Auvergne**
.51 Eure et Loir .52 Loiret .53 Loir et Cher .54 **Touraine:** Indre et Loir .55 **Berry** .551 Indre .552 Cher .56 **Nivernais:** Nièvre .57 **Bourbonnais:** Allier .58 **Lyonnais** .581 Loire .582 Rhône .59 **Auvergne** .591 Puy de Dôme .592 Cantal

.6 **Poitou Limousin**
.61 Vendée .62 Deux Sèvres .63 Vienne .64 Charente Inférieure .65 Charente .66 **Limousin:** Haute Vienne .67 Corrèze .68 **Marche:** Creuse

.7 **Guienne Gascony**
.71 Gironde .72 Dordogne .73 Lot .74 Aveyron .75 Tarn et Garonne .76 Lot et Garonne .77 **Gascony** .771 Gers .772 Landes .78 Hautes Pyrénées .79 **Béarn:** Basses Pyrénées

.8 **Languedoc**
.81 Haute Loire, Lozère .82 Ardèche .83 Gard .84 Hérault .85 Tarn .86 Haute Garonne .87 Aude .88 **Foix:** Ariège .89 Pyrénées Orientales

.9 **Provence Dauphiny**
.91 Bouches du Rhône .92 Vaucluse .93 Var .94 Alpes Maritimes .949 Monaco, Monte Carlo .95 Basses Alpes .96 **Dauphiny** .97 Hautes Alpes .98 Drôme .99 Isere

945 Italy

Period divisions

.01 Gothic and Lombard kingdoms 476–774
.02 Frankish emperors 774–961
.03 German emperors 962–1122
Hildebrand and papal supremacy
.04 Age of the communes 1100–1300
Free cities Strifes of Guelphs and Ghibelines
.05 Age of the despots 1300–1492
.06 Age of invasions 1492–1527
.07 Spanish-Austrian ascendancy 1527–1796
.08 Struggle for independence 1796–1870
Victor Emmanuel 2, Cavour, Garibaldi
.09 United Italy 1870–
Victor Emmanuel 2 –1878; Humbert 1878–1900; Victor Emmanuel 3 1900–

Geografic divisions of Italy

945.1 **Piedmont and Liguria**
.2 **Lombardy**
.3 **Venetia**
.4 **Emilia**
.5 **Tuscany**
.6 **Marches, Umbria and Latium**
.7 **Naples**
.71 Abruzzo and Molise .72 Campania .73 Napoli
.74 Salerno .75 Apulia .753 Lecce, Terra di Otranto
.77 Basilicata, Potenza .78 Calabria .783 Reggio di Calabria
.8 **Sicily Malta**
.9 **Sardinia and Corsica**

946 Spain

Period divisions

.01 **Early history Roman dominion Gothic kingdom** — 711
.02 **Moorish kingdom** 711–1479
.03 **Ferdinand 5 and Isabella** 1479–1516
Discovery
Expulsion of the Moors
.04 **Charles 1 and Philip 2** 1516–98
Inquisition War with the Netherlands Armada Charles 1 (5th of Germany) *1516–56* Philip 2 *1556–98*
.05 **Philip 3–Charles 4** 1598–1808
Degeneration 1 Philip 3 *1598–1621* 2 Philip 4 *1621–65* 3 Charles 2 *1665–1700* 4 House of **Bourbon:** 5 Philip 5 *1700–46* 6 Ferdinand 6 *1746–59* 7 Charles 3 *1759–88* 8 Charles 4 *1788–1808*
.06 **Peninsular war** 1808–14
Joseph Bonaparte
.07 **Bourbon restoration** 1814–68
Attempts at reform
Ferdinand 7 *1814–33* Isabella 2 *1833–68*
.08 **Revolution and 2d restoration** 1868—
Revolution of *1868–70* Amadeus *1870–73* Republic *1873–75*
Alfonso 12 *1875–85* Alfonso 13 *1886–*

Geografic divisions of Spain

.1 **Galicia Asturias**
.2 **Leon Estremadura**
.3 **Old Castile**
.4 **New Castile**
.5 **Navarre Aragon**
.6 **Basque provinces**
.7 **Catalonia Balearic iles Valencia Murcia**
.8 **Andalusia Canary iles** Geograficly better in 964.9

.9 Portugal

.91 Entre Minho-e-Douro .92 Tras-os-Montes .93 Beira
.94 Estremadura .95 Alemtejo .96 Algarve .98 Madeira
.99 Azores

947 Russia

Period divisions

.01 Primitiv Russia —862
.02 Varangian kingdom 862–1237
Conversion to Christianity
.03 Mongolian invasion 1237–1462
Civil wars
.04 Ivan 3–Ivan 5 1462–1689
Origin of serfdom
.05 Peter the Great 1689–1725
Wars with Sweden and Turkey
.06 Catharine 1–Catharine 2 1725–96
Partition of Poland
.07 Paul 1–Nicholas 1 1796–1855
War with Napoleon
Insurrection of Poland
Crimean war See also 942.08, 944.07, 945.08, 949.6
.08 Alexander 2 1855–81
Emancipation of the serfs
Turko-Russian war
Alexander 3 1881–94
Nicholas 2 1894–1917
Revolution 1917
.084 Republic 1917–

Geografic divisions of Russia

.1 **Finland Lapland**
.2 **Northern Great Russia**
Archangel, Vologda, Olonetz, Novgorod
.3 **Southern Great Russia**
.4 **Baltic provinces Ingria (Ingermanland)**
Courland, Livonia, Esthonia, Leningrad (Petrograd, St Petersburg)
.5 **Russian Poland**
Partly restored to Poland by peace of Versailles 1919. Lithuania
.6 **West Russia**
.7 **Little Russia South Russia Ukraine**
.8 **East Russia**
.9 **Caucasia**

948 Norway Sweden Denmark

Period divisions

.01 **Legendary period** -800
.02 **Consolidation Migration** 801-1397
Introduction of Christianity
Discovery of Iceland, Greenland, and America
Conquest of Britain and Normandy
.03 **Union of the 3 kingdoms** 1397-1523
Civilization Foren relations
.04 **The reformation** 1523-1648
Edict of toleration 1527
30 years war Gustavus Adolphus
.05 **Decline** 1648-1792
Wars vs Denmark, Poland, Russia
Political changes
.06 **Napoleonic wars** 1792-1818
Union of Norway and Sweden 1814
.07 **Charles 14 (Bernadotte)** 1818-
Peace Internal reform
.08

Geografic divisions

.1 **Norway**
.2 **Christiania Christiansand**
.3 **Bergen Hamar**
.4 **Throndhjem Tromso**
.5 **Sweden**
.6 **Gothland**
.7 **Svealand**
.8 **Norrland**
.9 **Denmark**

949 Other countries of Europe

.1 **Iceland Faroe ilands**
01 Commonwelth *-1264* 02 Medievalism *1264-1551* 03 Absolute rule, Decay *1551-1848* 04 Modern Iceland *1848-*

.2 **Netherlands**
01 Early history *-1477* 02 Austrian dominion *1477-1566* 03 Wars for independence *1566-1648* 04 Age of prosperity *1648-1795* 05 Revolutionary *1795-1830* 06 19th century *1830-1900* 07 20th century *1901-*

.3 **Belgium**

.4 **Switzerland**
01 Early history *-1300* 02 Struggle for independence *1300-1499* 03 Reformation *1499-1648* 04 Period of tranquillity *1648-1789* 05 Period of revolution *1789-1815* 06 19th century *1815-1900* 07 20th century *1901-*

.5 **Byzantine empire and modern Greece**
01 **Greek revival** 323-716
Constantine the great-Theodosius 3
02 **Byzantine prosperity** 716-1057
Leo 3-Michael 6
03 **Byzantine decline** 1057-1204
Isaac 1-Latin conquest of Constantinople
04 **Greek survival** 1204-1453
Constantinople taken by the Turks, 1453
05 **Turkish power** 1453-1821
06 **Greek independence** 1821-

.6 **Turkey in Europe Balkan states** .61 Constantinople
Also works including Turkey in Asia

.7 **Jugoslavia: Serbia, Montenegro Bulgaria**
In addition to Serbia and Montenegro, Jugoslavia (Kingdom of the Serbs, Croats and Slovenes, establisht in 1918) includes Dalmatia (943.69), Slavonia (943.93), Croatia (943.94), Bosnia (943.955), Herzegovina (943.96) and Slovenia

.8 **Rumania: Wallachia, Moldavia, Dobruja**
Includes also Bessarabia (947.7) added in Mar. 1918, Bukowina (943.75) Nov. 1918, and Transylvania (943.92) Dec. 1918

.9 **Ilands of Greek archipelago**
Divided like 939.1

950 Asia

951 China

.1 N. E. China, Peking .2 S. E. China, Canton, Hong Kong, Taiwan (Formosa) .3 S. W. China .4 N. W. China .5 Tibet .6 East Turkestan .7 Mongolia .8 Manchuria .9 **Chosen** (Korea)

952 Japan

953 Arabia

.1 Sinai .2 Hejaz, Mecca .3 Yemen .4 Hadramaut, Mahrah .5 Oman .6 Hasa .7 Dahna .8 Nejd .9 Syrian desert

954 India

.1 Bengal, Orissa, Assam, Bhotan .2 Northwest provinces, Oudh, Nepal .3 Central provinces .4 Rajputana .5 Punjab, Delhi, Lahore .6 Kashmir .7 Bombay, Sind, Baroda .8 Madras, Mysore, Travancore, Ceylon .9 Hyderabad

955 Persia

956 Turkey in Asia

See also 949.6

.1 Khodavendigar .2 Aidin, Smyrna .3 Kastamuni, Angora .4 Konieh, Adana, Cyprus .5 Trebizond, Sivas .6 Armenia and Kurdistan: Erzerum; Mamuret el Aziz, Karput; Diarbekr; Bitlis; Van .7 Mesopotamia: Mosûl; Bagdad; Basra .8 Aleppo .9 Syria Damascus, Phenicia, Palestine

957 Siberia

958 Afghanistan Turkestan Baluchistan

.1 N. E. Afghanistan, Kabul .2 South Afghanistan, Kandahar .3 N. W. Afghanistan, Herat .4 **Turkestan** .5 Kiva .6 Bokhara .7 Ferghana or Khokan .8 **Baluchistan**

959 Farther India

.1 British Burma .2 Burma .3 Siam .4 Laos .5 Lower Siam, Malay peninsula .6 Cambodia .7 French Cochin China .8 Anam .9 Tonkin

960 Africa

SUMMARY

961 **North Africa**
962 **Egypt**
963 **Abyssinia**
964 **Morocco**
965 **Algeria**
966 **North Central Africa**
967 **South Central Africa**
968 **South Africa**
969 **Madagascar and outlying ilands**

961 North Africa

Barbary, i.e. Morocco, Algeria, Tunis, Tripoli

.1 **Tunis** 50,000 sq. mi.
French protectorate 1881

.2 **Tripoli** **Libia Italiana** 406,000 sq. mi.
Annext to Italy 1911
Tripolitania
Oasis of Ghadames, Syrtis

.3 Fezzan 156,000 sq. mi.
Oases of Ghat and Murzuk

.4 Cyrenaica or Barka Bengazi

.9 Libyan desert
Eastern 3d belongs to Egypt

962 Egypt

Egypt proper, including Libyan desert and Sinai peninsula but excluding Sudan, 350,000 sq. mi. Cultivated and settled area, Nile valley and delta, 12,226 sq. mi.

.1 **Lower Egypt** **Masr-el-Bahri** **Delta**
Extends beyond Cairo, about 30° N.
.11 Beheira: Alexandria .12 Gharbîya .13 Daqahlîya: Damietta .14 Menûfîya .15 Sharqîya: Port Said, Ismaila, Suez .16 Qalyûbîya: Cairo, Heliopolis

.2 **Middle Egypt** **el-Wustani** **Vostani**
Extends from Cairo, 30° N., to Assiut, about 27° N.
.21 Gîza: Gizeh, Memphis .23 Faiyûm .25 Beni-Suêf
.26 Minya .28 Asyût: Assiut

.3 **Upper Egypt** **es-Said**
Extends from Assiut, 27° N., nearly to Wadi Halfa, 22° N.
.31 Girga .33 Qena: Dendera, Luxor, Karnak, Thebes
.36 Aswân: Assuan, Elephantine, First Cataract, Philae

962.4 **Anglo-Egyptian Sudan** 1,014,400 sq. mi.
Extends from 22° to about 5° N. 15 provinces

.41 Nubia Northern provinces
In a broad sense, no strictly defined limits; may be taken to include Nile valley from Assuan, 24° N., to Khartum, 16° N. Here used in more limited sense, including provinces of Halfa, Red Sea and Berber, also 962.5 Dongola

.5 Dongola

.6 Central provinces
Khartum, White Nile, Blue Nile

.7 West provinces
Including Darfur, under nativ rule

.8 Kordofan Nuba mts

.9 East and south provinces
Kassala, Sennar, Upper Nile (formerly Fashoda), Bahr-el-Ghazal, Mongalla (including Lado enclave), Sobat-Pibor

963 Abyssinia Ethiopia 350,000 sq. mi.
Tigre, Amhara, Shoa

.5 **Eritrea** 45,800 sq. mi.
Massaua or Massowah, Assab

964 Morocco French protectorate 231,500 sq. mi.

.1

.2 **Spanish Morocco The Rif**
Cities: Tangier, Ceuta, Tetuan

.3 **Fez and the northwest coast**
Region west of Atlas mts and south to Wâdy Oum-er-Rabia
Cities: Fez, Rabat, Casablanca

.4 **Central region**
Atlas mts: Middle Atlas, Great Atlas, Anti-Atlas

.5 **Southeast region**
Beyond the Atlas mts

.6 **Morocco and southwest coast Marakesh**
Region south of Wâdy Oum-er-Rabia
Cities: Morocco, Mogador, Agadir

.7

.8 **Rio de Oro Adrar Ifni (Spanish)**

.9 **Canary iles (Spanish)**
Geograficly better here than in 946.8
.91 Tenerif .92 Grand Canary .93 Palma .94 Gomera
.95 Hierro or Ferro .96 Fuerteventura .97 Lanzarote

965 Algeria (French) 222,180 sq. mi.
Northern Algeria includes the 3 departments, Oran, Alger, Constantine

.1 **Oran**

.3 **Alger**

.5 **Constantine**

.7 **Southern Algeria**
4 territories: Ain Sefra, Ghardaia, Touggout, Saharan oases (Tuat, Gurara, Tidikelt)

966 North Central Africa European West Africa

SUMMARY

.1 French West Africa Sahara
.2 Sudan
.3 Senegambia Senegal
.4 Sierra Leone
.5 Upper Guinea
.6 Liberia Ivory Coast
.7 Gold Coast Ashanti
.8 Dahomey Togo
.9 Nigeria

.1 **French West Africa Sahara**
French West Africa includes colonies: 966.12 Mauritania, 966.2 French Sudan, 966.25 Upper Volta Colony, 966.26 Military Territory of Niger, 966.3 Senegal, 966.52 French Guinea, 966.68 Ivory Coast, 966.8 Dahomey

.11 Sahara (French)
In broad sense all northern Africa from Atlas mts to the Sudan, about 3,500,000 sq. mi. This includes parts of Morocco, Algiers, Tunis and Egypt. French Sahara is estimated at about 1,500,000 sq. mi.

.12 Mauritania 344,967 sq. mi.

.15 El Hodh

.17 Azaouad

.2 **Sudan (French) Upper Senegal-Niger** 617,600 sq. mi.

.21 River Niger

.22 Northwest region
Kaarta, Bakhunu, Sahel

.23 Southwest region
Segu, Kenedugu, Bembas State

.24 Central region
Massina, Timbuktu, Lakes

.25 **Upper Volta** 154,400 sq. mi.
Mossi, Gurma

.26 **Military Territory of Niger** 347,400 sq. mi.

.27 Southwest region
Cheggazar, Immanang

.28 North region
Air or Asben

.3 **Senegambia Senegal (French)** 74,112 sq. mi.
Senegambia, region between rivers Senegal and Gambia and sometimes including French Guinea; name now disused. Senegal now used for northern portion, including Casamance basin; includes both colony and protectorate

.31 North coast region
Walo, St Louis

.32 Central coast region
Cayor, Baol, Sine, Salum, Cape Verde, Dakar, Rufisque, Gorée

.33

.34 South coast
Basin of the Casamance

.35 Central region
Jolof, Ferlo

.36 Northeast region
Fouta, Bondu

.37 Southeast region
Bambuk, River Faleme

966.4 **Sierra Leone, colony and protectorate (British)** 31,000 sq. mi.
.41 Sierra Leone colony 4000 sq. mi.
North section, north of Sherbro iland Freetown
.42 South section Sherbro iland Turner's peninsula
.43 Protectorate
.44 Karene
.45 Koinadugu
.46 Ronietta
.47 Railway
.48 Southern Sherbro
.5 **Upper Guinea**
Part north of Gulf of Guinea is known as Upper Guinea; includes broadly: 966.3 Senegal, 966.4 Sierra Leone, 966.5 English, French and Portuguese Guinea, 966.6 Liberia, Ivory Coast, 966.7 Gold Coast, 966.8 Dahomey, Togoland, 966.9 Nigeria
.51 Gambia English Guinea 4130 sq. mi.
.52 French Guinea 95,218 sq. mi.
.53 Coast region Rivières du Sud Konakry
.54 Central region Fouta Jallon
Timbo, Labé, Tuba
.55 Northeast region Sankaran
Dinguiray, Siguiri, Kurussa, Kankan
.56 South region
Kissidugu, Beyla, Bissandugu
.57 Portuguese Guinea 13,940 sq. mi.
.579 Bissagos ilands
.58 Cape Verde ilands
.6 **Liberia** 40,000 sq. mi. **Grain Coast**
Grain Coast divided between Liberia and 966.4 Sierra Leone
.61 Montserrado
Gondo, Toma, Bouzie, Barlin
.62 Coast region Robertsport, Monrovia
.63 Grand Bassa Gurra, Sapo
.64
.65 Sino Wau, Kru coast
.66
.67 Maryland Cape Palmas
.68 **Ivory Coast (French)** 121,976 sq. mi.
.681 Coast region Grand Bassam, Assinie, Bingerville
.683 Central region Baule, Bakwe
.685 Northwest hinterland
.687 Northeast hinterland Ganne, Kong

966.7 **Gold Coast colony (British)** 80,000 sq. mi.
Areas do not include parts of Togoland assignd by treaty to Great Britain
.71 Gold Coast colony proper 24,200 sq. mi.
.72 Western province Central province
.73 Eastern province
.74 Ashanti 20,000 sq. mi.
.75 Southern province Central province Coomassie
.76 Western province Northern province
.77 Northern territories 35,800 sq. mi.
.78 Southern province
Kintampo district, Gonga district, Salaga
.79 Northwestern province Black Volta district Wa
Northeastern province White Volta district Gambaga
.8 **Dahomey (French)** 42,460 sq. mi.
.81 Togoland
Former German possession now divided between 966.7 Gold Coast (British) and Dahomey
.82 Lower Dahomey
.83 Coast region Slave Coast
Grand Popo, Kotonu, Porto-Novo
.86 Upper Dahomey
.87 Borgu
.9 **Nigeria (British)** 332,000 sq. mi.
.91 Southern Nigeria
.92 Western province Yoruba Lagos protectorate
The colony, Abeokuta, Ijebu, Oyo, Ondo
.93 Central province
Benin, Onitsha, Warri, Niger delta, Oil Rivers
.94 Eastern province
Owerri, Ogoja, Calabar, Kamerun South
.95 Northern Nigeria
.96 West region
Sokoto, Kontagora, Borgu, Nupe, Niger, Ilorin, Kabba
.97 Central region
Kano, Zaria Nassawara, Munshi, Bassa
.98 East region
Bornu, Bauchi, Yola, Muri, Kamerun North
.99 Ilands of the Gulf of Guinea
.991 Fernando Po (Spanish)
.993 Principe Prince's iland (Portuguese)
.994 São Thomé St Thomas (Portuguese)
.996 Annobon (Spanish)

967 South Central Africa

SUMMARY

.1 Lower Guinea Kamerun
.2 French Equatorial Africa French Kongo Loango
.3 Angola Portuguese West Africa
.4 Interior Ubangi-Shari Chad
.5 Belgian Kongo
.6 British East Africa
.7 Somaliland
.8 Zanzibar Tanganyika territory
.9 Mozambique Portuguese East Africa

.1 Lower Guinea

Southern or Lower Guinea comprizes coasts of 967.21 Gabun, 967.3 Angola, and may include coast of Kamerun, which occupies a middle position between Upper and Lower Guinea

.11 Kamerun [Cameroon] (French) 166,489 sq. mi.
General number for former German Kamerun, larger portion of which was assignd to France

.12 Coast region Jang, Yabasi, Duala, Edea, Kribi
.13 Southwest region Ebolowa, Wolo Ntem, Ivindo
.14 Southeast region Lomie, Yukaduma
.15 Central region Bamun, Yaunde, Dume
.16 Adamawa Banyo, Ngaundere
.17 Garua Upper Logone
.18 Spanish Guinea Rio Muni
.19 Spanish ilands
Alternativ place for Fernando Po see 966.991, and Annobon see 966.996

.2 French Equatorial Africa French Kongo Loango

French Equatorial Africa includes 967.11 Kamerun, and 967.4 Ubangi-Shar and Chad Military Territory

.21 Gabun 121,862 sq. mi.
.22 Coast region Libreville
.23 East region Franceville, Lastourville
.24 Middle Kongo 150,292 sq. mi.
.25 West region
Loango, Bakunyi, Bwenza
.26 South central region
Bacongo, Bjwe, Pool (Brazzavilie), Bateke, Alima, Kwiyu
.27 North central region
Mossaka, Bakota, Bokiba, Lower Sanga, Likwala
.28 North region
Benga Motaba, Middle Sanga, Upper Sanga

967.3 **Angola Portuguese West Africa** 484,800 sq. mi.
.31 Kongo Kabinda
.32 Loanda Shinga's country
Guanza-Norte, Guanza-Sul
.33 Benguela
.34
.35 Mossamedes
.36 Lunda
.37 Huila Gambos, Kamba, Mulondo
.38 Cubango
.39 Portuguese ilands
Alternativ place for Principe see 966.993, and São Thomé see 966.994

.4 Interior

.41 Ubangi-Shari (French) 208,219 sq. mi.
.42 East region Banda
.43 Chad Military Territory (French) 501,676 sq. mi.
.44 Southwest region Bagirmi
.45 Southeast region Wadai
.46 Central region Lake Chad Kanem
.47 Northeast region Borku
.48 Northwest region Teda or Tibba
.49 North region Tibesti or Tu

.5 Belgian Kongo Free State Kongo basin 909,654 sq. mi.

.51 Kongo-Kasai province
Lower Kongo Boma Bakongo Middle Kongo Leopoldville
.52 Kwango Kasai Sankuru
.53 Equator province
Lake Leopold II, Equator
.54 Lulonga Bangala Ubangi
.55 Eastern province
Lower Uele, Upper Uele, Ituri, Stanleyville
.56 Aruwimi Lowa Uregga Maniema Kasongo
.57 Kivu Ruanda Urundi
.58 Katanga province
Lomami, Tanganyika-Moero, Urua
.59 Lulua Upper Luapula

967.6 British East Africa Kenya colony and protectorate

British East Africa includes 967.61 Uganda protectorate, 967.62–.69 Kenya colony and protectorate, 967.81 Zanzibar, 967.82–.89 Tanganyika territory. Clas here general works on whole of British East Africa and those on Kenya colony and protectorate alone

.61 Uganda protectorate 110,300 sq. mi.

.611 Buganda province
Masaka, Mubendi, Mengo, Entebbe, including ilands in Victoria Nyanza

.612 Victoria Nyanza

.613 Western province
Kigezi, Ankoli, Toro

.614 Albert Nyanza

.615 Eastern province
Busoga Bukedi, Teso, Lango, Lobor, Karamojo

.616 Northern province
Bunyoro, West Nile, Gulu, Chua

.617 Rudolf province
Turkwel, Turkana, Dabossa

.618 Lake Rudolf

.62–.69 Kenya colony and protectorate 246,822 sq. mi.

.62 Nyanza province
North Kavirondo, Nandi, Kusumu, South Kavirondo, Lumbwa

.63 Naivasha province
Southern Masai Reserve, Naivasha (district), Laikipia, Eldama Ravine, Uasin Gishu, Turkana

.64 Kenya province
Nyeri, Meru, Embu, Fort Hall

.65 Ukamba province
Kitui, Kikuyu, Machakos

.66 Seyidie province
Teita, Vanga, Mombasa, Malindi

.67 Tanaland province
Tana River, Lamu

.68 Jubaland province
Afmadu, Kismayu, Serenli

.69 Northern Frontier District
Not yet organized as a province

.7 Somaliland

.71 French Somali Coast French East Africa 5790 sq. mi.
Obok, Tajura, Jibuti

.72 British Somaliland protectorate 68,000 sq. mi.

.728 Sokotra iland 1382 sq. mi.

.73 Italian Somaliland 139,430 sq. mi.

.74 Sultunate of the Mijertins

.75 Territory of the Nogal

.76 Sultunate of Obbia

.77 Southern Italian Somaliland (formerlv cald Benadir)
Medio Shebeli. Basso Shebeli, Alto Shebeli, Alto Juba

967.8 Zanzibar Tanganyika territory

.81 Zanzibar 640 sq. mi.

.815 Pemba 380 sq. mi.

.816 Mafia

.82–.89 Tanganyika territory 365,000 sq. mi.
Formerly German East Africa

.82 North coast
Tanga, Wilhelmstal, Pangani

.83 Central coast
Bagamoyo, Morogoro, Dar es Salam

.84 South coast
Rufiji, Kilwa, Lindi

.85 South or Lake Nyasa region
Songea, Mahenge, Langenburg

.86 South central region
Iringa, Dodoma

.87 North central region
Kondoa-Irangi, Moshi, Arusha

.88 Lake Victoria region
Mwanza, Bukoba

.89 West or Lake Tanganyika region
Tabora, Ujiji, Bismarckburg

.9 Mozambique Portuguese East Africa 428,132 sq. mi.

.91 Nyasa company Companhia do Nyasa Cabo Delgado Querimba

.92

.93 Mozambique (district)

.94 Quilimane or Kilimane Zambezi delta

.95

.96 Tete Zambezi basin

.97 Mozambique company Companhia de Moçambique
Gazaland, Sofala, Manika

.98 Inhambane Hlengaland

.99 Lourenço Marques Delagoa Bay

968 South Africa

General number for Union of South Africa 1909, which includes nearly all area in 968.2–.8, with total area of 473,096 sq. mi.

SUMMARY

.1 Bechuanaland protectorate
.2 Transvaal
.3 Zululand Swaziland Amatonga
.4 Natal
.5 Orange Free State
.6 Basutoland Kaffraria
.7 Cape of Good Hope
.8 Southwest Africa protectorate
.9 Rhodesia Nyasaland protectorate

.1 Bechuanaland protectorate 275,000 sq. mi.

Clas here general works on Bechuanaland, including (with the Protectorate) British Bechuanaland 968.785

.11 Northwest region West Bamangwato
Use also as general number for Bamangwato tribe, which includes 968.11–.14
Ongova, Okavango, Bangai, Batawana

.12 Northeast region East Bamangwato Bashona, Batletli

.13 North section Madenassa

.14 South section Khama's country

.15 Linchwe's country Bakatla tribe

.16 Sebele's country Bakwena tribe
Masarwa, Makalahari

.17 Bathoen's country Bangwaketse tribe

.18 Montsioa's country Barolong tribe

.19 Southwest and west region Kalahari desert
Kalahari desert in broad sense includes all Bechuanaland protectorate and parts of Cape of Good Hope and Southwest Africa protectorate

.2 Transvaal 110,450 sq. mi.

1852 Transvaal State; 1877 annext by Great Britain; 1884 South African Republic; 1900 annext again, Transvaal; 1910 an original province of Union of South Africa

.21 Pretoria (county and city)

.22 Witwatersrand Johannesburg Krugersdorp

.23 South central counties
Heidelberg, Standerton, Bethal

.24 Southeast counties
Wakkerstroom, Piet Retief, Ermelo, Carolina

.25 East counties
Barberton, Lydenburg, Middelburg

.26 Zoutpansberg Pietersburg

.27 Waterberg

.28 Rustenburg Marico

.29 Southwest counties
Lichtenburg, Potchefstroom, Wolmaransstad, Bloemhof

968.3 Zululand Swaziland Amatonga
Zululand annext to Natal 1897. 10,424 sq. mi.

.31 East region
Ndwandwe, Hlabisa, Mahlabatini, Emtonjaneni, Umfolozi

.32 West region
Eshowe, Umlalazi, Mtunzini, Nkandhla, Nqutu

.33

.34 Swaziland 6678 sq. mi.

.35 North region Mountains
Peak, Mbabane

.36 South region
Ubombo, Mankaiana, Hlatikulu

.37 Amatonga
Annext to Zululand 1897

.38 North region
Ingwavuma, Tongaland, Maputa

.39 South region Ubombo

.4 Natal 35,284 sq. mi. (including Zululand 10,424 sq. mi.)

.41 Northern districts
Annext from Transvaal to Natal 1903
Vryheid; Ngotshe, Vryheid (district), Babanango
Utrecht; Paulpietersburg, Utrecht (district)

.42 Klip River division
Newcastle, Dundee, Klip River (district), Umsinga, Helpmakaar, Impofana

.43 Weenen division
Bergville, Upper Tugela, Estcourt, Weenen (district)

.44 Umvoti division
Krantzkop, Umvoti (district), Mapumulo

.45 Pietermaritzburg division
Lions River, Howick, Impendhle, Underberg, Ipolela, Ixopo, New Hanover, Indwedwe, Umgeni, Umkomanzi, Richmond, Camperdown

.46 Victoria; Lower Tugela, Inanda

.47 Durban Umluzi

.48 Alexandra

.49 Alfred; Alfred (district), Lower Umzimkulu

968.5 **Orange Free State** 50,389 sq. mi.
Orange River Colony 1900–1910

.51 Central region Bloemfontein (county and city)

.52 West region
Fauresmith, Jacobsdal

.53 Northwest region
Boshof, Hoopstad

.54 North region
Kroonstad, Vredefort, Heilbron, Lindley, Frankfort

.55 Northeast region
Vrede, Harrismith, Bethlehem

.56 Upper east region
Senekal, Winburg

.57 Lower east region
Ficksburg, Ladybrand, Thabanchu

.58 Southeast region
Wepener, Rouxville, Smithfield

.59 Southwest region
Edenburg, Bethulie, Philippolis

.6 **Basutoland Kaffraria**
Kaffraria, east of Kei river; formerly independent nativ kingdom; annext to Cape of Good Hope 1875, and now incorporated as 968.63 Griqualand East, 968.64 Pondoland, 968.65 Tembuland, 968.67 Transkei

.61 Basutoland 11,716 sq. mi.
Drakensberg mts form east boundary

.62

.63 Griqualand East 6602 sq. mi.
Includes most of region formerly cald Noman's-land and afterwards named Adam Kok's Land
.631 Matatiele .632 Mount Currie .633 Umzimkulu .634 Mount Ayliff .635 Mount Frere .636 Mount Fletcher .637 Qumbu .638 Maclear .639 Tsolo

.64 Pondoland 3906 sq. mi.
British protectorate proclaimd 1885, annext to Cape of Good Hope 1894
.641 East Pondoland .642 Bizana .643 Flagstaff .644 Tabankulu .645 Lusikisiki, Umsikaba .646 Port St John's .647 West Pondoland .648 Libode .649 Ngqeleni

.65 Tembuland 3339 sq. mi.
Annext to Cape of Good Hope 1885
.651 Elliot .652 Slang River .653 Xalanga .654 St Mark's .655 Engcobo .656 Umtata **.657 Bomvanaland** .658 Mqanduli .659 Elliotdale

.66

.67 Transkei 2504 sq. mi.
Annext to Cape of Good Hope 1879
.671 Gealeka or Galekaland .672 Willowvale .673 Kentani **.674 Fingoland** .675 Butterworth .676 Idutywa .677 Nqamaqwe .678 Tsomo

968.7 **Cape of Good Hope** 276,966 sq. mi. Colony proper 208,661 sq. mi.
Founded by Dutch 1652, taken by English 1795, returnd 1803, taken again 1806, formally ceded 1814

.71 Western province
.711 Cape Town (county) .712 Cape Town (city) .713 Simon's Town .714 Wynberg .715 Woodstock .718 Stellenbosch .719 Paarl

.72 Northwest province
.721 Tulbagh .722 Worcester .723 Ceres .724 Malmesbury .725 Piquetberg .726 Clanwilliam .727 Calvinia .728 Van Rhynsdorp .729 Namaqualand

.73 Southwest province
.731 Caledon .732 Bredasdorp .733 Robertson .734 Swellendam .735 Riversdale .736 Ladismith .737 Oudtshoorn .738 Mossel Bay .7385 George .739 Uniondale .7395 Knysna

.74 Midland province
.741 Beaufort West .742 Prince Albert .7425 Laingsburg .743 Aberdeen .7435 Murraysburg .744 Graaff Reinet .745 Fraserburg .7455 Sutherland .746 Victoria West .7465 Carnarvon .747 Kenhardt .7475 Prieska .748 Hopetown .749 Britstown .7495 Richmond

.75 Southeast province
.751 Humansdorp .752 Willowmore .753 Jansenville .7535 Steytlerville .754 Uitenhage .755 Port Elizabeth .756 Alexandria .757 Albany, Grahamstown .758 Bathurst .759 Peddie .7595 Victoria East

.76 Northeast province
.761 Fort Beaufort .7615 Stockenstrom .762 Somerset East .763 Bedford .764 Cradock .765 Tarka .766 Middelburg .7665 Steynsburg .767 Hanover .7675 Philipstown .768 Colesberg .769 Albert .7695 Molteno

.77 Eastern province
.771 Aliwal North .772 Herschel .773 Barkly East .774 Wodehouse .775 Glen Grey .776 Queenstown .777 Cathcart .7775 Stutterheim .778 King William's Town .7785 Komgha .779 East London

.78 Northern section Griqualand
.781 Herbert .782 Kimberly .783 Barkly .784 Hay **.785 British Bechuanaland** .786 Gordonia .787 Kuruman .7875 Taungs .788 Vryburg .789 Mafeking

.8 **Southwest Africa protectorate** 322,400 sq. mi.
Formerly German West Africa

81 Great Namaqualand
.82 Luderitz Land, Luderitz Bay, Angra Pequeña .825 Warmbad .83 Bethany .833 Keetmanshoop .838 Hasuur .84 Gibeon .845 Maltahöhe

.85 Damaraland or Hereroland
.851 Swakopmund .852 Walfish or Walvis Bay .853 Rehoboth .854 Windhoek .855 Gobabis .856 Okahandya .857 Karibib .858 Omaruru

.86 Ovambo or Ovampo-land or Aajamba
.87 Outjo, Kaoko-land .88 Ambo-land .89 Grootfontein

968.9 **Rhodesia** 440,000 sq. mi. Nyasaland protectorate
British South Africa Company charter 1889

.91 Southern Rhodesia 149,000 sq. mi.

.92 Matabele-land
.921 Gwanda (including the former district of Tuli) .922 Bulalima-Mangwe .9228 Tati district .923 Bulawayo .924 Matopo .9245 Umzingwane .925 Insiza .9255 Belingwe .926 Nyamandhlovu .9265 Bubi .927 Gwelo .9275 Selukwe .928 Wankie .929 Sebungwe

.93 Mashonaland
.931 Chibi (formerly Mtibi) .932 Victoria .9323 Ndanga .9327 Melsetter .933 Chilimanzi .9335 Gutu .934 Charter .9345 Umtali .935 Hartley .9355 Marandellas .936 Makoni .9365 Inyanga .937 Salisbury .9374 Mrewa .9377 Mtoko .938 Mazoe .9385 Darwin .939 Lomagundi

.94 Northern Rhodesia 291,000 sq. mi.
Amalgamation of Northeastern and Northwestern Rhodesia 1911

.95 Northwestern Rhodesia
.951 **Barotse or Mabunda** **Monkoya or Mankoya**
.952
.953 **Batoka** **Batonga**
.954
.955 **Kafue** **Mashukulumbwe** **Walenje**
.956 **Kasempa** **Bakwakwa or Bakakwakwa**
.957
.958 **Loangwa**
1 North region Bakonde
5 Walamba
.959 South region Zumbo
1 Aluano
5 Chicunda or Chikunda

.96 Northeastern Rhodesia
.961 **Mwera or Mrewa** **Luapula or Mere-Mere** **Wausi**
Lake Mweru, Moero or Meru Waitawa, Walundi, Wakisinga
.962
.963 **Tanganyika**
Alungu or Ulungu, Amambwe or Mambwe, North Loangwa (a former district which included parts of Tanganyika and Awemba)
.964
.965 **Awemba**
Wasenga, Watwa, Awisa, Lake Bangweulu, Bangweolo or Bemba
.966
.967 **Serenje (formerly West Loangwa)**
.968 **East Loangwa or Luangwa**
Awisa, Achewa or Ackewa, Asenga

.97 Nyasaland protectorate 39,573 sq. mi.
British Central Africa protectorate 1891–1907
.971 North Nyasa .972 West Nyasa .9725 Mombera .973 Marimba .974 Central Angoniland .9741 Lilongwe .9745 Dedza .975 South Nyasa .976 Upper Shire .9765 Liwonde .977 West Shire .9775 Zomba .978 Blantyre .9785 Mlanje or Milanji .979 Ruo .9795 Lower Shire

969 Madagascar and ilands of South Indian Ocean

.1 **Madagascar (French)** 228,000 sq. mi.
.2
.3
.4 **Ilands north of Madagascar**
.41 Comoro: Mayotte or Mauté, Anjouan or Johanna, Great Comoro, Moheli or Moali (French)
.42 Aldabra (British)
.43 Cosmoledos (British)
.44 Gloriosa (French)
.45 Providence (British)
.46 Farquhar (British)
.47 Agelaga (British)
.5 **Amirantes or Admiral's (British)**
.6 **Seychelles (British)**
29 ilets: Mahé, Praslin, Silhouette
.7 **Chagos (British)**
Grand Chagos or Diego Garcia, Peros Banhos, Solomon, Danger, Egmont, Three Brothers or Trois Fréres
.8 **Mascarenes and ilands east of Madagascar**
.81 Reunion or Bourbon (French)
.82 Mauritius or Île de France (British)
.83 Rodriguez (British)
.84 Cargados Garayos, St Brandon or Nazareth (British): Albatross, Coco, Tromelin
.9 **Isolated ilands**
.91 Amsterdam
.92 Saint Paul
.93 Kerguelen

970 North America

.1 Indians, aborigines .2 Lives of Indians .3 Special tribes .4 Special states .5 Government relation and treatment .6 Special subjects: caracter, civilization, agriculture, etc.

See 371.975 Education; 572.97 Ethnology: 497 Languages

971 Canada British America

General works on Canada under British rule

For histories of special periods see 971.01–.054; of special provinces see 971.1–.9

For constitutional history see 342.71

Period subdivisions

For works not limited to any of the territorial subdivisions .1–.9 but dealing with a limited period

Clas archives with their periods and segregate them if wisht by booknumbers that wil automaticly locate them ahed of other histories having the same clas number: e.g. A1–A9 if Cutter numbers ar used for other works; A2–A2 if Cutter-Sanborn numbers ar used

.01 **French regime 1497–1763**

From earliest time till cession to England

.011 Discovery and early settlement 1497–1632

Early explorations along Atlantic seaboard 1497–1533. Discovery and occupation of St Lawrence 1534–43. Rise of fur trade 1544–1612. Permanent colonization 1613–32

.016 Extension of English rule 1632–1763

Treaty of St Germain-en-Laye 20 Mar. 1632

.018 Struggle with England for supremacy

Peace of Utrecht 1713–Peace of Paris 1763. Seven years war 1755–63; in United States cald French and indian war. British supremacy dates actually from fall of Quebec, 1759; formally from peace of Paris, 10 Feb. 1763

.02 **End of 7 years war to constitutional act 1791**

Conspiracy of Pontiac 1763–64

Quebec act 1774

.024 American revolution United Empire loyalists

Canadian libraries wil clas here United Empire loyalists, but works on the revolution 1775–83 ar better put in 973.3

.03 **1792 to Union act 1841**

See also 971.3 Ontario and 971.4 Quebec

.034 War of 1812

1812–15. In United States cald also 2d war for independence

Better clast in 973.52 (United States history)

.038 Rebellion 1837–38

.039 Union act 10 Feb. 1840

Passage of Union act, closing the period under the Constitutional act. See also constitutional history, 342.719

.04 **Union 1841 to Confederation 1867**

Beginning with operation of Union act; Canadian parliament at Ottawa 13 June 1841. Clas clergy reservs agitation in 971.3 Ontario; abolition of seigniories in 971.4 Quebec

.048 Fenian invasions

.049 British North America act, 29 March 1867

.05 **Dominion of Canada 1867–**

Canada under British North America act

.051 Red river (Riel's 1st) rebellion 1870

.054 Northwest (Riel's 2d) rebellion 1885

Geografic divisions

971.1 **British Columbia**

.2 **Northwest Territories**

Including former Hudson Bay territory

.21 **Yukon**

Klondike region Dawson (city)

.22 Mackenzie

.23 **Alberta**

.24 **Saskatchewan**

.26 Keewatin

.27 **Manitoba**

.28 Ungava

.29 Franklin

See also 998 Arctic region.

.3 **Ontario**

For St Law ence river see 971.4

Formerly also Upper Canada or Canada West

See also 971.4 note. Clas here Clergy reservs

.31 **Northwestern**

North shore of Lake Superior and Lake Huron; Georgian bay

.311 Rainy River district

Lake of the Woods Rainy lake

.312 Thunder Bay district

5 *Fort William*

.313 Algoma district

Sault Ste Marie

5 Manitoulin iland

.314 Nipissing district

.315 Parry Sound Maganetawan districts

.316 Muskoka Lake of Bays district

.317 Simcoe

.318 Grey Owen Sound (or Sydenham)

.32 **Western**

East shore of Lake Huron

.321 Bruce

.322 Huron

.323 Perth

.324

.325 Middlesex

.326 *London* (city)

.327 Lambton

.33 **Southwestern**

North shore of Lake Erie

.331 Essex

.332 *Windsor* (city)

.333 Kent

.334 Elgin

.335 *St Thomas* (city)

.336 Norfolk

.337 Haldimand

.338 Welland

971.34 **West central**
.341 Dufferin
.342 Wellington
.343 *Guelph* (city)
.344 Waterloo
.345 *Berlin* (city)
.346 Oxford
.347 Brant
348 *Brantford* (city)
.35 **Southern**
West and North shore of Lake Ontario
.351 Lincoln
St Catherines (city)
.352 Wentworth
Hamilton (city)
.353 Halton Peel
.354 York
1 *Toronto* (city)
.355 Ontario
.356 Durham
.357 Northumberland
.358 Hastings
7 Prince Edward
.359 Lennox and Addington
.36 **Central**
.361 Haliburton
.362
.363
.364 Victoria
.365
.366
.367 Peterborough
.368 *Peterborough* (city)
.369
.37 **Southeastern**
St Lawrence river counties
.371 Frontenac
.372 *Kingston* (city)
.373 Leeds
Rideau lakes and canal
.374 Grenville
.375 Dundas
.376 Stormont
.377 Glengarry
.378
.379
.38 **Northeastern**
Ottawa river counties
.381 Renfrew
.382 Lanark
.383 Carleton
.384 *Ottawa* (city)
.385 Russell
.386 Prescott

971.4 **Quebec St Lawrence river**
Lower Canada or Canada East
From its cession by France to England in 1763 all Canada was one colony, the Province of Quebec, till 1791. In 1791 it was divided by the constitutional act into 2 provinces: Upper Canada (Ontario) and Lower Canada (Quebec). By the union act, 1840, the 2 provinces wer reunited as the Province of Canada; union in 1867 by the British North America act again divided into the provinces of Ontario and Quebec. Quebec is from Caudebec (Normandy), home of many of its erly settlers.
.41 **Northern**
.411 Mistassini
.412 Abitibi
.414 Lake St John
.416 Chicoutimi
.417 Saguenay Anticosti iland
.419 Ashuanipi
.42 **Western** Ottawa river counties
.421 Pontiac
.422 Ottawa (former county)
1 Wright
2 *Hull* (city)
5 Labelle
.423 Argenteuil
.424 Terre Bonne
.425 Two Mountains
.426 Vaudreuil
5 Soulanges
.427 Laval
.428 Hochelaga
1 *Montreal* (city)
5 Jacques Cartier
.43 **Southwestern** South of the St Lawrence and west of Richelieu river
.431 Huntingdon
.432 Beauharnois
.433 Chateaugay
.434 La Prairie
.435 Napierville
.436 Verchères
.437 Chambly
.438 St Johns
.44 **North central** North of St Lawrence from Montreal to Saguenay river
.441 Montcalm
6 L'Assomption
.442 Joliette
.443 Berthier
.444 Maskinonge
.445 St Maurice
.446 Champlain
6 Portneuf
.447 Quebec
1 *Quebec* (city)
.448 Montmorency
Île d'Orléans
.449 Charlevoix

971.45 **South Central**
Counties south of St Lawrence from Richelieu river to Quebec
.451 Richelieu
.452 St Hyacinthe
5 Bagot
.453 Rouville
.454 Yamaska
.455 Nicolet
.456 Drummond
5 Arthabaska
.457 Wolfe
5 Megantic
.458 Lotbinière
.459 Levis
.46 **Southern**
Southern border from Richelieu river to Lake Megantic
.461 Iberville
.462 Missisquoi
.463 Shefford
.464 Brome
.465 Richmond
.466 Sherbrooke
Sherbrooke (city)
.467 Stanstead
.468 Compton
.469 Lake Megantic
.47 **Southeastern**
Lower St Lawrence, southern side from Quebec to Gulf of St Lawrence
.471 Beauce
.472 Dorchester
.473 Bellechasse
5 Montmagny
.474 L'Islet
.475 Kamouraska
.476 Temiscouata
.477 Rimouski
5 Matane
.478 Bonaventure
.479 Gaspé
7 Magdalen ilands

.5 **New Brunswick**
.51 **Northern**
.511 Restigouche
.512 Gloucester
.52 **Eastern**
.521 Northumberland
.522 Kent
.523 Westmoreland
Monckton (city)

971.53 **Southern**
.531 Albert
.532 St John
St John (city)
.533 Charlotte
Grand Manan iland
.54 **Central**
.541 Kings
.542 Queens
.543 Sunbury
.55 **Western**
.551 York
Fredericton (city)
.552 Carleton
.553 Victoria
.554 Madawaska

.6 **Nova Scotia**
.61 **Northern**
.611 Cumberland
.612 Colchester
.613 Pictou
.614 Antigonish
.62 **Southern**
.621 Guysborough
.622 Halifax co. and city
.623 Lunenburg
.624 Queens
.625 Shelburne
.63 **Western**
.631 Yarmouth
.632 Digby
.633 Annapolis
.634 Kings
.635 Hants
.69 Cape Breton (iland)
.691 Inverness
.693 Victoria
.695 Cape Breton
.696 *Sydney* (city)
.698 Richmond

.7 **Prince Edward Island**
.71 Prince
.74 Queens
.75 *Charlottetown* (city)
.77 Kings

.8 **Newfoundland**

.9 **Labrador**
For Moravian missions see 266.46

972 Mexico Central America

Period divisions

.01	Ancient civilization	— 1516
	1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya	
.02	Discovery and Spanish rule	1516–1810
.03	Independence	1810–1822
.04	First empire Iturbide 1 Pronunciamientos	1822–1845
.05	War with United States. See also 973.6	1845–1848
.06	Constitution of '57 Reform	1848–1861
.07	French intervention	1861–1867
.08	Later history	1867–

Geografic divisions

.1 Free zone and Northern states
Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango

.2 Lower California and ilands

.3 Central Pacific states
Sinaloa, Jalisco, Colima, Michoacan

.4 Interior states
Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos

.5 Mexico Federal district

.6 Southern Gulf states
Vera Cruz, Tabasco, Campeche, Yucatan

.7 Southern Pacific states
Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas

.8 Central America

.81 Guatemala
.82 British Honduras Belize
.83 Honduras
.84 San Salvador
.85 Nicaragua
.86 Costa Rica

.9 West Indies

.91 Cuba
.92 Jamaica
.93 Santo Domingo
.94 Hayti
.95 Porto Rico
.96 Bahamas
.97 Leeward ilands
.98 Windward ilands Barbados
.99 Bermudas

973 United States

SUMMARY OF 973

.1	Discovery	—1607
.2	Colonial	1607—1775
.3	Revolution	1775—1789
.4	Constitutional	1789—1809
.5	War of 1812	1809—1845
.6	War with Mexico	1845—1861
.7	Civil war	1861—1865
.8	Later 19th century	1865—1901
.91	Early 20th century	1901–

See also 342.73 U. S. constitutional law and history; 328.73 U. S. legislativ bodie and annals; 329 Political parties; 353 U. S. government

.1 Discovery —1607

From earliest times to settlement of Jamestown

See also 970.1–.6 American indians; 913.7 American antiquities; 571.91 Mounds and mound bilders; 571.85 Pueblos

.11 Precolumbian

For precolumbian claims of Chinese, Norse, Welsh, etc. see .12 to .14 below

Arabs
Jews
Africans
Irish
Poles
Germans Martin Behaim
Italians

.12 Chinese

.13 Norse
Gunnbiorn
Eric the Red
Leif Ericson
Bjarni Herjulfson
Thorwald
Thorfinn Karlsefne

.14 Welsh
Prince Madoc

.15 Columbus

.16 Spanish and Portuguese

Dates of voyages are added to names

Amerigo Vespucci 1497–1504
Gaspar and Miguel Cortereal 1500–2 Labrador
Juan Ponce de Leon 1513–21 Florida
Vasco Nuñez de Balbóa 1513 Pacific ocean
Hernando Cortés 1518–40 See also 972.02 History of Mexico
Fernando da Magalhaens 1518–21 Magellan straits
Francisco Pizarro 1524–41 See also 985 History of Peru
Hernando de Soto 1539–42 Mississippi river
Francisco Vasquez de Coronado 1540–42 New Mexico, Arizona, Colorado

.17 English

John and Sebastian Cabot 1497–1530
Sir John Hawkins 1562–69
Sir Francis Drake 1570–80
Sir Martin Frobisher 1576–78
Sir Humphrey Gilbert 1578–83
Sir Walter Ralegh 1578–1602
John Davis 1585–87
Bartholomew Gosnold 1602–07

973.18 French

Giovanni da Verrazano 1524
Jacques Cartier 1534–44 Canada
Jean Ribault 1562–65 Florida
René de Laudonnière 1564–66 Florida
Samuel de Champlain 1603–35 See also 971 History of Canada

.19 Other nations

.2 Colonial period 1607–1775

See also histories of separate colonies

.21 Virginia settlement 1607–20

Settlement of Jamestown 13 May 1607 See 975.5 Virginia history
Hudson's voyage 1609 See also 974.7 N. Y. history

James 1 1603–25

.22 New England settlement 1620–43

Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history
Pequot war 1636–37 Connecticut

Charles 1 1625–49

.23 New England confederacy 1643–64

United colonies of New England 19 May 1643

Commonwelth 1649–53
Oliver Cromwell 1653–58
Richard Cromwell 1658–59

.24 Conquest of New Netherland 1664–89

King Philip's war 1675–76 Massachusetts
War with eastern indians 1675–78 Maine
Sir Edmund Andros, governor of New England 1686–89

Charles 2 1660–85
James 2 1685–88

.25 Early French wars 1689–1732

Witchcraft in New England See 133.4
King William's war 1689–97
Sometimes cald in Europe 'War of the Palatinate'
Queen Anne's war 1702–13
Known in Europe as War of the Spanish succession

William 3 1689–1702
Anne 1702–14
George 1 1714–27

.26 Extension of English rule 1732–63

Settlement of Georgia 1732 See 975.8 Georgia history
King George's war 1744–48
Known in Europe as War of the Austrian succession
Albany convention assembled 19 June 1754
French and indian war 1755–63
Known in Europe as Seven years war
Braddock's defeat 9 July 1755
Crown Point and Ticonderoga 1758–59
Capture of Louisburg 27 July 1758
Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe
Peace of Paris 10 Feb. 1763

George 2 1727–60

.27 Last years of the colonies 1763–75

See also specially 973.311 Causes of the Revolution
Conspiracy of Pontiac 1763–64
Bouquet's expedition 1763–64
Lord Dunmore's war Ap.-Oct. 1774 Virginia

George 3 1760–1820

973.3 Revolution and confederation 1775–89

SUMMARY OF 973.3

.31 Political history
.32 Diplomatic history
.33 Special campains and battles
.34 General military history
.35 Naval history
.36 Celebrations
.37 Prisons, hospitals
.38 Personal narrativs
.39 Illustrativ material

.31 Political history; causes, results

For financial history see 336.73

.311 Causes
1 Stamp act 1765
2 Navigation acts; mercantil policy
Burning of the Gaspé 17 June 1772
3 Boston massacre 5 Mar. 1770
4 Taxation and representation
5 Tax on tea 1767 Boston tea party 16 Dec. 1773
6 Boston port bill 1774

.312 Political history 1775–83
Continental congress See 328.73 U. S. legislativ bodies

.313 Declaration of independence 4 July 1776 See also 973.361
Mecklenburg declaration 20 May 1775

.314 Loyalists, tories See also 973.381 Treason and traitors

.315 Relations of special classes to the Revolution
Clergy and churches
Lawyers
College graduates

.316

.317 Treaty of peace 1783
Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784

.318 Confederation 1783–89
Shay's rebellion 1786–87 Massachusetts
Cession of western territory to United States

.319

.32 Diplomatic history; relations with other nations

Divided like 940; e. g. 973.324 Relations with France; 973.326 Relations with Spain

.33 Special campains and battles

.331 Campains of 1775
1 Lexington and Concord 19 April See also 973.352
2 Bunker Hill 17 June See also 973.366
3 Siege of Boston June 1775-March 1776
4 Ticonderoga 10 May
Crown Point 12 May
5 Canadian expeditions
Montgomery
6 Arnold
7
8 Events in the south

973.332 Campains of 1776
1 Campain for the Hudson
2 Battle of Long Island 27 Aug.
3 British occupation of New York
4 American retreat Sep.–Nov. 1776
Harlem Hights 16 Sep.
White Plains 28 Oct.
Fort Washington 16 Nov.
5 Washington in the Jerseys Dec. 1776–Jan. 1777
6 Trenton 26 Dec.
Princeton 3 Jan. 1777
7
8 Events in the south
North Carolina
Fort Moultrie, Sullivan's iland 28 June
.333 Campains of 1777
1 Events in Connecticut and Rhode Island
2 Burgoyne's campain
Ticonderoga evacuated 6 July
Hubbardton, Vt 7 July
Bennington, Vt 16 Aug.
3 Freeman's farm or Bemis Hights or Stillwater 19 Sep.
Bemis Hights or Saratoga 7 Oct.
Burgoyne's surrender 17 Oct.
4 Fort Stanwix or Fort Schuyler or Oriskany 2–22 Aug
5 Clinton's advance up the Hudson
Forts Clinton and Montgomery 6 Oct.
6 Howe's campain
Brandywine 11 Sep.
Paoli 20 Sep.
7 Philadelphia taken by British 27 Sep.
Germantown 4 Oct.
Forts on the Delaware
Red Bank, or Fort Mercer 22 Oct.
Mud iland, or Fort Mifflin 10–16 Nov.
8 Events in south Including Kentucky
.334 Campains of 1778
1 Washington at Valley Forge 1777–78
2 Events in middle states
Battle of Monmouth 28 June
3 Evacuation of Philadelphia June
4 Indian depredations See also 973.343
Wyoming 1–4 July
5 Mohawk valley
Cherry valley 11 Nov.
Brant See also 970.2 Indian biografy
6 Rhode Island campain, August See also 973.354 Naval history
7 Events in the south
Capture of Savannah 29 Dec.
8 Events in northwest 1778–79
Clark's expedition
Vincennes, Ind. 2 Jan. and 20 Feb. 1779

973.335 Campains of 1779
1 Events in New England
Tryon in Connecticut July
2 Penobscot expedition Aug. and Sep.
3 Events in middle states
Minisink 19 July
4 Wayne at Stony Point 16 July
5 Paulus Hook 19 Aug.
6 Sullivan's expedition July–Sep.
7 Events in the south
Briar creek 3 Mar.
Siege of Savannah 23 Sep. and 18 Oct.
8 Events in northwest See 973.3348
.336 Campain of 1780
1 Southern campains
Waxhaws, N. C. 29 May
Ramsour Mills, N. C. 20 June
Leslie's expedition into Virginia Oct.
2 Siege of Charleston Mar.–May
3 Camden, S. C. 16 Aug.
4 Kings mountain, S. C. 7 Oct.
5 Events in middle states
Springfield, N. J. 23 June
Bull's Ferry, N. Y. 21 July
6 Northern invasion
.337 Campains of 1781
1 Southern campains
2 Events in Carolinas Jan.–Ap.
Cowpens, S. C. 17 Jan.
Guilford, N. C. 15 Mar.
Hobkirks hill, S. C. 25 Ap.
3 Events in Carolinas May–Dec.
Fort Ninety-Six, S. C. May–June
Eutaw Springs, S. C. 8 Sep.
4 British in Virginia
5 Siege of Yorktown Sep.–Oct.
Surrender of Cornwallis 19 Oct.
6 Events in the north
7 Arnold in Connecticut Sep.
.338 Campains of 1782
.339 Events of 1783
British evacuation of New York 25 Nov. See also 973.363

973.34 **General military history**
.341 English side
.342 Mercenaries; Hessians
.343 Indians
.344 American side
Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1–A19 for official publications, A2 for lists of revolutionary soldiers
1
2 New Hampshire
3 Vermont Not then a state, admitted 1791
4 Massachusetts
5 Rhode Island
6 Connecticut
7 New York
8 Pennsylvania
9 New Jersey
.345 Southern states
1 Delaware
3 Maryland
5 Virginia
6 North Carolina
7 South Carolina
8 Georgia
.346 American auxiliaries
.347 French
.348
.349 Special topics
Conway cabal 1777–78
Mutiny of Pennsylvania line Jan. 1781
Newburgh addresses 1782–83
.35 **Naval history**
.351 Events of 1775
Capture of the Margaretta June 12
.352 Events of 1776
Escape of British sloop of war Glasgow 6 Ap.
Battle of Lake Champlain 11–13 Oct.
Gen. Benedict Arnold
.353 Events of 1777
Lexington and Alert 20 Sep.
.354 Events of 1778
French fleet at Newport
.355 Events of 1779
Bon Homme Richard and the Serapis 23 Sep.
.356 Events of 1780
Trumbull and Watt 2 June
.357 Events of 1781
Alliance and British brigs Atalanta and Trepassey 28 May
.358 Privateers

973.36 **Celebrations, anniversaries, commemorations**
These should usually be clast with the special event commemorated, but some anniversaries ar of such general caracter as to be better clast here
For patriotic societies commemorating the revolution see 369.13
.361 Fourth of July See also 973.313
.362 19th of April See also 973.3311
.363 Evacuation day, New York See also 973.339
.364
.365 Monuments, memorials See also 718
.366 Bunker Hill monument See also 973.3312
.367 Washington's various hedquarters
Newburgh, N. Y.
Morristown, N. J.
.37 **Prisons, hospitals, etc.**
.371 English prisons
1 Jersey prison ship
2 Sugar house prison
.372 American prisons
.373 Exchange of prisoners
.374
.375 Medical dep't; surgeons, nurses, etc.
.376 Hospitals
.377
.378
.379
.38 **Personal narrativs, vindications, secret servis**
.381 Treason and traitors See also 973.314 Loyalists, tories
.382 Benedict Arnold
.383 Charles Lee
.384
.385 Secret servis, spies
American side: Nathan Hale
.386 British side: Major John André
.39 **Illustrativ material**
These numbers should be used mainly for references. Poems, dramas etc. should usually be clast under their own numbers, 811, 812, etc. but special collections should be clast here
.391 Poetry
.392 Drama
.393 Fiction
.394 Addresses
.395 Sermons
.396 Humor
.397 Pictures
Paintings, drawings, caricatures, engravings, fotografs, sculpture
.398 Music
.399 Maps

973.4 Constitutional period **1789-1809**

See 342.73 U. S. constitution; 329.1 Federal party 1789-1823; 329.2 Antifederal party 1789-92

.41 George Washington **30 Ap. 1789-4 Mar. 1797**

Born 22 Feb. 1732; died 14 Dec. 1799

Sworn into offis 30 Ap. 1789

National bank establisht 25 Feb. 1791 See 332.11

Vermont admitted, 14th state 4 Mar. 1791 See 974.3

Kentucky admitted, 15th state 1 June 1792 See 976.9

.42 Indian wars

Harmar's expedition 1790

St Clair's expedition 1791

.43 Washington's 2d term 4 Mar. 1793-4 Mar. 1797

Neutrality proclamation 22 Ap. 1793 See also 341.3

Whisky insurrection July-Nov. 1794

Wayne's expedition, Oct.-Nov. 1794, and treaty, 3 Aug. 1795

Jay's treaty 28 Oct. 1795 See also 341.2

Treaty with Spain 27 Oct. 1795 See also 341.2

Tennessee admitted, 16th state 1 June 1796 See 976.8

.44 John Adams **4 Mar. 1797-4 Mar. 1801**

Born 31 Oct. 1735; died 4 July 1826

Alien act 25 June 1798 See 341.5

Sedition act 14 July 1798 See 323

Removal of capitol to Washington

.45 Troubles with France

Naval battles; Constellation and L'Insurgent 9 Feb. 1800

.46 Thomas Jefferson **4 Mar. 1801-4 Mar. 1809**

Born 2 Ap. 1743; died 4 July 1826

Ohio admitted, 17th state 19 Feb. 1803 See 977.1

Purchase of Louisiana 2 May 1803

.47 Wars with Barbary states

.48 Jefferson's second term 4 Mar. 1805-4 Mar. 1809

Aaron Burr's conspiracy 1806

See also 923.27 lives of Burr; and 343.1 Trials

Embargo act 22 Dec. 1807

.5 War of 1812 **1809-45**

.51 James Madison **4 Mar. 1809-4 Mar. 1817**

Born 16 Mar. 1751; died 28 June 1836

Engagement between ships President and Little Belt 16 May 1811

Defeat of indians by Gen. Harrison at Tippecanoe 7 Nov. 1811

Louisiana admitted, 18th state 30 Ap. 1812 See 976.3

Indiana admitted, 19th state 11 Dec. 1816 See 977.2

973.52 War of 1812

War declared 18 June 1812. Treaty of peace 24 Dec. 1814

.521 Political history; causes, results

Hartford convention

.522 Diplomatic history

.523 Special campains and battles

1 Campain in northwest

Includes all west of New York

Surrender of Detroit 16 Aug. 1812

2 Events in northwest 1813-14

3 Campain in New York, New England and Canada

Battle of Queenstown 13 Oct. 1812

4 Events in New York and New England 1813

Capture of Fort Niagara 19 Dec.

5 Events in Canada 1813

Capture of Fort George 27 May

Battle of Thames 5 Oct.

6 Events in New York and New England 1814

Bombardment of Stonington, Conn. 9-12 Aug.

7 Events in Canada 1814

Capture of Fort Erie 3 July

Battle of Chippewa 5 July

Battle of Lundy's lane 25 July

8 Campain in the south

Battle of Bladensburg 24 Aug. 1814

Burning of Washington 24 Aug. 1814

Bombardment of Fort McHenry 13 Sep. 1814

9 Events in Louisiana

Battle of New Orleans 22 Dec. 1814-8 Jan. 1815

.524 General military history

1 English side

2 Indian allies

3

4 American side in general

Divided like 974. Under the number for each state use the book numbers A1-A19 for official publications, A2 for lists of soldiers

5 South Atlantic states

Divided like 975

6 Gulf states

Divided like 976

7 Lake states

Divided like 977

973.525 Naval history
1 Events of 1812
Constitution and Guerrière 19 Aug.
Wasp and Frolic 18 Oct.
United States and Macedonia 25 Oct.
Constitution and Java 29 Dec.
2 Events on inland waters
3 Events of 1813
Hornet and Peacock 24 Feb.
Chesapeake and Shannon 1 June
Pelican and Argus 14 Aug.
Enterprise and Boxer 5 Sep.
4 Events on inland waters
Battle of Lake Erie 10 Sep.
5 Events of 1814
Essex against Phoebe and Cherub 28 Mar.
Peacock and Epervier 29 Ap.
Wasp and Reindeer 28 June
Wasp and Avon 1 Sep.
Wasp and Atlanta 21 Sep.
6 Events on inland waters
Battle on Lake Champlain 11 Sep.
7 Events of 1815
Capture of frigate President 15 Jan.
Capture of Cyane and Levant by the Constitution 20 Feb.
Hornet and Penguin 23 Mar.
8 Privateers
.526 War meetings, celebrations, anniversaries, etc.
See note under 973.36
See 369.14 societies of the war of 1812
.527 Prisons, hospitals, etc.
1 English prisons Dartmoor
.528 Personal narrativs, vindications, secret servis
.529 Illustrativ material Divided like 973.39
.53 Algerine war
.54 James Monroe **4 Mar. 1817–4 Mar. 1825**
Born 28 Ap. 1758; died 4 July 1831
Mississippi admitted, 20th state 10 Dec. 1817 See 976.2
Illinois admitted, 21st state 3 Dec. 1818 See 977.3
Purchase of Florida 25 Feb. 1819
Alabama admitted, 22d state 14 Dec. 1819 See 976.1
Maine admitted, 23d state, 15 Mar. 1820 See 974.1
Missouri compromise See 326.973 and 973.7113
Missouri admitted, 24th state 10 Aug. 1821 See 977.8
Monroe doctrin Dec. 1823 See 327.73
Tariff act 22 May 1824 See 337
.541 First Seminole war 1818
.55 John Quincy Adams **4 Mar. 1825–4 Mar. 1829**
Born 11 July 1767; died 23 Feb. 1848
Erie canal completed 1825 See 386
Panama congress 1826 See 341.1
Removal of Creek indians 1825–29 See 970.3
Tariff act 19 May 1828 See 337

973.56 Andrew Jackson **4 Mar. 1829–4 Mar. 1837**
Born 15 Mar. 1767; died 8 June 1845
Rotation in offis See 351.6
United States bank See 332.11
Whig party See 329.4
Compromise tariff act 3 Mar. 1833 See 337
Independence of Texas 2 Mar. 1836 See 976.4
Arkansas admitted, 25th state 15 June 1836 See 976.7
Specie circular 11 July 1836 See 336.73
Michigan admitted, 26th state 26 Jan. 1837 See 977.4
.561 Nullification See also 342.73
Webster and Hayne debate 25–27 Jan. 1830
Nullification ordinance, South Carolina 24 Nov. 1832
.562 Black Hawk war 1832
.57 Martin Van Buren **4 Mar. 1837–4 Mar. 1841**
Born 5 Dec. 1782; died 24 July 1862
Panic of 1837 See 332
Alton riot 7 Nov. 1837 See 326.973
Burning of Caroline 26 Dec. 1837
Northeast boundary, Aroostook war Feb.–Mar. 1839
Amistad case 1839
.571 Second Seminole war 1835–42
.58 William Henry Harrison **4 Mar. 1841–4 Ap. 1841**
Born 9 Feb. 1773; died 4 Ap. 1841
John Tyler **4 Ap. 1841–4 Mar. 1845**
Born 29 Mar. 1790; died 18 Jan. 1862
Dorr's rebellion May–June 1842 See 974.5
Ashburton treaty, northeast boundary
Texas annexation resolution 28 Feb. 1845
Florida admitted, 27th state 3 Mar. 1845 See 975.9
.6 War with Mexico **1845–61**
.61 James Knox Polk **4 Mar. 1345–4 Mar. 1849**
Born 2 Nov. 1795; died 15 June 1849
Texas annext, 28th state 29 Dec. 1845 See 976.4
Wilmot proviso adopted by house 8 Aug. 1845 See also 973.7113
Iowa admitted, 29th state 28 Dec. 1846 See 977.7
Wisconsin admitted, 30th state 29 May 1848 See 977.5
Free soil party; Buffalo convention Aug. 1848 See 329.6
.611 Northwest boundary; Oregon; treaty with England 12 June 1849
.62 Mexican war 1845–48
War declared 13 May 1846; treaty of peace 30 May 1848
.621 Political history; causes, results
Annexation of Texas
Acquisition of California, Nevada, Utah, Arizona, etc.
.622 Diplomatic history
.623 Special campains and battles
1 Kearny in New Mexico
2 Fremont in California
3 Taylor's campain
4 On the Rio Grande
Palo Alto 8 May 1846
Resaca de la Palma 9 May
Matamoras 18 May
5 In Mexico
Monterey 20–25 Sep. 1846
Buena Vista 22–23 Feb. 1847

973.623 6 Scott's campain
7 Vera Cruz 22–29 Mar. 1847
Cerro Gordo 17–18 Ap.
8 Battles near Mexico
Contreras 19–20 Aug.
San Antonio 20 Aug.
Churubusco 20 Aug.
9 Capture of Mexico
Molino del Rey 8 Sep.
Chapultepec 12–13 Sep.
Mexico 14 Sep.
.624 General military history
.625 Naval history
.626 War meetings, celebrations, anniversaries
See note under 973.36; also 369.145 Aztec club of 1847
.627 Prisons, hospitals, etc.
.628 Personal narrat'vs
.629 Illustrativ material See note under 973.39
.63 **Zachary Taylor** **5 Mar. 1849–9 July 1850**
Born 24 Sep. 1784; died 9 July 1850
Inaugural ceremony 5 March
Compromise of 1850, Omnibus bil, introduced by Henry Clay 29 Jan. 1850 See also 326.973 and 973.7113
.64 **Millard Fillmore** **9 July 1850–4 Mar. 1853**
Born 7 Feb. 1800; died 7 Mar. 1874
Clayton-Bulwer treaty 4 July 1850 See also 386
California admitted, 31st state 9 Sep. 1850 See 979.4
Fugitiv slave law 18 Sep. 1850 See 326.973
Popular soverenty, or squatter soverenty See 342.73 and 326.973
Filibustering expeditions to Cuba 1849–51 See 972.91
.65
.66 **Franklin Pierce** **4 Mar. 1853–4 Mar. 1857**
Born 23 Nov. 1804; died 8 Oct. 1869
Know-nothing party See also 329.5
Republican party See also 329.6
Com. Perry's expedition to Japan 1852–54 See also 915.2 and 341.273
Gadsden treaty with Mexico for purchase of southern Arizona and New Mexico 30 June 1854
Kansas-Nebraska bil 30 May 1854 See also 326.973, 978.1 and 978.2
Ostend manifesto 18 Oct. 1854 See also 972.91
Walker's filibuster expedition against Nicaragua 1855 See also 972.85
.67
.68 **James Buchanan** **4 Mar. 1857–4 Mar. 1861**
Born 23 Ap. 1791; died 1 June 1868
Dred Scott decision 6 Mar. 1857 See also 326.973 and 973.7113
Lecompton constitution, Kansas; proslavery 7 Nov. 1857
See also 978.1
Minnesota admitted, 32d state 11 May 1858 See 977.6
Oregon admitted, 33d state 14 Feb. 1859 See 979.5
John Brown's raid 16–17 Oct. 1859 See also 973.7116 and 326.973
Kansas admitted, 34th state 29 Jan. 1861 See 978.1
.69

973.7 War of secession 4 Mar. 1861—15 Ap. 1865

SUMMARY OF 973.7
.71 Political history
.72 Diplomatic history
.73 Special campains and battles
.74 General military history
.75 Naval history
.76 Celebrations
.77 Prisons, hospitals
.78 Personal narrativs
.79 Illustrativ material

Abraham Lincoln **4 Mar. 1861—15 Ap. 1865**
Born 12 Feb. 1809; died 15 Ap. 1865
1st term 4 Mar. 1861–4 Mar. 1865; 2d term 4 Mar. 1865–15 Ap. 1865

.71 **Political history; causes, results**
West Virginia admitted, 35th state 19 June 1863 See 975.4
Nevada admitted, 36th state 31 Oct. 1864 See 979.3
.711 Causes
1 Slavery See also 326
2 Extension of slavery
Annexation of territory
Slavery in the territories
3 Compromises
Missouri compromise 1820 See also 973.54
Wilmot proviso 1846 See also 973.61
Compromise of 1850 See also 973.63
4 Abolition movement
Murder of Elijah P. Lovejoy 7 Nov. 1837
Assault on Charles Sumner by Preston S. Brooks 22 May 1856
5 Fugitiv slaves
Underground railway
Dred Scott case See also 973.68
6 John Brown's raid See also 973.68
7 States' rights
8 Tarif See also 337
.712 Efforts to preserv peace
Crittenden compromise introduced 18 Dec. 1860
Peace conference 4–27 Feb. 1861
.713 Secession of southern states
South Carolina 20 Dec. 1860
Mississippi 9 Jan. 1861
Florida 10 Jan.
Alabama 11 Jan.
Georgia 19 Jan.
Louisiana 26 Jan.
Texas 1 Feb.
Confederate States of America formd 4 Feb.
Virginia 17 Ap.
Arkansas 6 May
North Carolina 20 May
Tennessee 8 June
For constitutional conventions see subdivisions of 342; proceedings and documents of Confederate congress and of state legislatures see subdivisions of 328
.714 Results of the civil war
Emancipation proclamation 1 Jan. 1863 See also 326.8
Freedmen's bureau See 361
For the present condition of negro, see 325.26
For negro colony in Liberia, Africa, see 325.6; history of Liberia 966.6

973.715 Relations of special classes to the civil war
Clergy and churches. Colleges, students and graduates
.716 Southern side
.717 Unionists in the south
.718 Secessionists in the north
.72 Diplomatic history: relations with other nations
Divided like 940; e. g. 973.722 Relations with England, 973.727 Russia
.721 Diplomatic history of Confederate States
Divided like 940; e. g. 973.7214 Relations of Confederate States with France
.73 Special campains and battles
General arrangement of topics is based on *Official records of the Union and Confederate armies*, pub. by the U. S. The indexes of those volumes can be used as a minute subject index for subdivisions of 973.73
.731 Campain of 1861
1 Operations in Charleston harbor, S. C. 20 Dec. 1860-14 Ap. 1861
Bombardment of Fort Sumter 12-14 April
2 Operations in other southern states (see *Official records*, v. 1)
3 Maryland, Pennsylvania, Virginia, West Virginia, 16 Ap.-31 July
Riot at Baltimore, Md. 19 April
Engagement at Big Bethel, or Bethel Church, Va. 10 June
4 Battle of Bull Run, or Manassas, Va. 21 July
5 Missouri, Arkansas, Kansas, Indian Territory 10 May-19 Nov.
6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862
Kentucky, Tennessee 1 July-19 Nov.
North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862
7 Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862
8 Engagement at Ball's Bluff, Va. 21 Oct.
Action near Edwards Ferry, Va. 22 Oct.
9 S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Ap. 1862
.732 Campain of 1862
1 West Florida, southern Alabama, southern Mississippi, Louisiana
1 Sep. 1861–12 May 1862
Capture of New Orleans, La. 18 Ap.-1 May
2 Kentucky, Tennessee, north Alabama, southwest Virginia
19 Nov. 1861-4 March 1862
Capture of Fort Henry, Tenn. 6 Feb.
Siege and capture of Fort Donelson, Tenn. 12-16 Feb.
3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861–10 Ap. 1862
Battle of Pea Ridge, or Elkhorn tavern, Ark. 6-8 Mar.
4 Southeastern Virginia 11 Jan.-17 Mar.
Battle of Merrimac and Monitor See 973.752
North Carolina 11 Jan.-20 Aug.
Burnside expedition
Battle of Roanoke iland, N. C. 8 Feb.
Texas, New Mexico, Arizona 1 Feb.-20 Sep.
5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia 4 Mar.-10 June
Siege of Corinth, Miss. 29 Ap.-10 June
6 Battle of Pittsburg Landing or Shiloh, Tenn. 6-7 Ap.

973.732 Campain of 1862 *continued*
7 Peninsular campain, Va. 17 Mar.-2 Sep.
Siege of Yorktown, Va. 5 Ap.-4 May
Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June
Seven-days battles 25 June-1 July
8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.
Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.
Second battle of Bull Run, or Manassas, Va. 30 Aug.
9 Missouri, Arkansas, Kansas, Indian Territory, Dep't of N. W.
10 Ap.-20 Nov.
.733 Campain of 1862 *concluded*
1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862–11 June 1863
2 West Florida, southern Alabama, southern Mississippi, Louisiana
12 May 1862–14 May 1863
Texas, New Mexico, Arizona 20 Sep. 1862–14 May 1863
3 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 10 June–31 Oct.
4 West Tennessee, northern Mississippi 10 June–20 Jan. 1863
Battle of Corinth, Miss. 3–4 Oct.
5 North Carolina, southeastern Virginia 20 Aug. 1862–3 June 1863
6 Northern Virginia, West Virginia, Maryland, Pennsylvania
3 Sep.–14 Nov.
Battle of South Mountain, Md. 14 Sep.
Battle of Antietam, or Sharpsburg, Md. 16–17 Sep.
7 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.–20 Jan. 1863
Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862–3 Jan. 1863
8 Northern Virginia, West Virginia, Maryland, Pennsylvania
15 Nov.–25 Jan. 1863
9 Battle of Fredericksburg, Va. 11–15 Dec.
.734 Campain of 1863
1 Missouri, Arkansas, Kansas, Indian Territory, Dep't of Northwest
20 Nov. 1862–31 Dec. 1863
2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.–10 Aug.
Middle Tennessee, or Tullahoma campain 23 June–7 July
Morgan's Ohio raid 2–26 July
3 Mississippi, west Tennessee 20 Jan.–10 Aug.
4 Siege of Vicksburg, Miss. 19 May–4 July
5 Northern Virginia, West Virginia, Maryland, Pennsylvania
26 Jan.–3 June
6 Chancellorsville, Va. campain 27 Ap.–6 May
7 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May–31 Dec.
Siege of Port Hudson, La. 21 May–8 July
8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania
Dep't of East 3 June–3 Aug.
9 Battle of Gettysburg, Pa. 1–3 July

973.735 Campain of 1863 *concluded*
1 South Carolina, Georgia, middle and east Florida 12 June–31 Dec
Operations on Morris iland, S. C. 10 July–7 Sep.
Occupation of Battery Wagner, S. C. 6–7 Sep.
Bombardment of Fort Sumter, S. C. 17 Aug.–31 Dec.
Bombardment of Charleston, S. C. 21 Aug.–31 Dec.
3 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.–31 Dec.
Bristoe, Va. campain 9–22 Oct.
Mine Run, Va. campain 26 Nov.–2 Dec.
4 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 11 Aug.–19 Oct.
5 Chickamauga, Ga. campain 16 Aug.–22 Sep.
Battle of Chickamauga, Ga. 19–20 Sep.
6 East Tennessee campain 16 Aug.–19 Oct.
7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 20 Oct.–31 Dec.
8 Knoxville, Tenn. campain 4 Nov.–23 Dec.
Siege of Knoxville, Tenn. 17 Nov.–4 Dec.
9 Chattanooga-Ringgold campain 23–27 Nov.
Battle of Lookout mountain, Tenn. 24 Nov.
Battle of Missionary ridge, Tenn. 25 Nov.
.736 Campain of 1864
1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 Jan.–30 Ap.
Meridian, Miss. expedition 3 Feb.–6 Mar.
Forrest's expedition into west Tennessee and Kentucky 16 Mar.–14 Ap.
Capture of Fort Pillow, Tenn. 12 Ap.
2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania 1 Jan.–30 Ap.
Expedition against New Berne, N. C. 28 Jan.–10 Feb.
Engagement at Morton's Ford, Va. 6–7 Feb.
Kilpatrick's expedition against Richmond, Va. 28 Feb.–4 Mar.
3 Louisiana, trans-Mississippi 1 Jan.–30 June
Red river, La. campain 10 Mar.–22 May
Camden, Ark. expedition 23 Mar.–3 May
4 South Carolina, Florida, Georgia coast 1 Jan.–13 Nov.
Charleston, S. C. harbor and vicinity
Florida expedition 5–22 Feb.
Engagement at Olustee or Ocean Pond, Fla. 20 Feb.
5 Southeastern Virginia, North Carolina 1 May–12 June
Engagement at Proctor's Creek and Drewry's Bluff or Fort Darling, Va. 12–16 May
Operations on the Bermuda Hundred, Va. front 17 May–2 June
Engagement at Petersburg, Va. 9 June
6 Battle of the Wilderness, Va. 5–7 May
7 Operations about Spottsylvania Court-House, Va. 8–21 May
8 Operations at and about Cold Harbor, Va. 31 May–12 June
9 Northern Virginia, West Virginia, Maryland, Pennsylvania 1 May–3 Aug.
Engagement at New Market, Va. 15 May
Lynchburg, Va. campain 26 May–29 June
Battle of the Monocacy, Md. 9 July
Action near Fort Stevens, D. C. 12 July

973.737 Campain of 1864 *concluded*
1 Northern Georgia 1 May–8 Sep.
Atlanta, Ga. campain
Battle of Atlanta, Ga. 22 July
2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 May–13 Nov.
Engagement at Harrisburg, near Tupelo, Miss. 14–15 July
Operations in Mobile bay, Ala. 2–23 Aug. See 973.754
Engagement at Allatoona, Ga. 5 Oct.
3 Southeastern Virginia, North Carolina 13 June–31 July
Richmond, Va. campain
Assaults on the Petersburg lines 15–18 June
Explosion of the mine and assault on the crater 30 July
4 Louisiana, trans-Mississippi 1 July–31 Dec.
Price's Missouri expedition 29 Aug.–2 Dec.
5 Southeastern Virginia, North Carolina 1 Aug.–31 Dec.
Richmond, Va. campain
Expedition to Fort Fisher, N. C. 7–27 Dec.
6 Northern Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.–31 Dec.
7 Shenandoah valley campain, Va. 7 Aug.–28 Nov.
Battle of Winchester, or the Opequon, Va. 19 Sep.
Battle of Cedar creek, Va. 19 Oct.
8 South Carolina, Georgia, Florida 14 Nov.–31 Dec.
Savannah, Ga. campain, or Sherman's march to the sea 15 Nov.–21 Dec.
9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 14 Nov.–23 Jan. 1865
Battle of Franklin, Tenn. 30 Nov.
Battle of Nashville, Tenn. 15–16 Dec.
.738 Campain of 1865
1 Northern and southeastern Virginia, North Carolina, West Virginia, Maryland, Pennsylvania 1 Jan.–30 June
2 Richmond, Va. campain 1 Jan.–3 Ap.
3 Expedition to and capture of Fort Fisher, N. C. 3–17 Jan.
4 Appomattox, Va. campain 29 Mar.–9 Ap.
Battle of Five Forks, Va. 1 Ap.
Surrender of Gen. Lee 9 Ap.
5 North Carolina, South Carolina, southern Georgia, east Florida 1 Jan.–30 June
Campain of the Carolinas 1 Jan.–26 Ap.
6 Louisiana, trans-Mississippi 1 Jan.–30 June
7 Kentucky, southwestern Virginia, Tennessee, northern and central Georgia, Mississippi, Alabama, west Florida 1 Jan.–30 June
Wilson's raid from Chickasaw to Selma, Ala. and Macon, Ga. 22 Mar.–24 Ap.
8 Mobile, Ala. campain 17 Mar.–4 May
9 Pacific coast 1 Jan. 1861–30 June 1865

973.74 General military history

.741 Northern side

1 Regular army

2 Volunteers, quotas

3 Bounties

4 Drafts

5 Negro troops

6 Special armies or corps

Army of the Cumberland
Army of the Potomac
2d army corps
19th army corps etc.

7 Special branches or servises

Cavalry
Artillery
Engineers
Signal servis
Guerrillas
Commissariat

8 General orders

9 Regimental losses

.742 Southern side

Guerrillas

.743 Foren elements

Divided like 940

.744–.749 Separate states and regimental histories

Divided like 974–979; 973.7444, Massachusetts; 973.7447, New York. Under each state arrange books by the following book numbers

A for official publications

A 1 Adjutant-general's reports

A 2 Lists of soldiers

B–D, General works on the part taken by the state in the conflict

B whole state, C county, D town

E Histories of cavalry regiments

F Hevy artillery

G Light artillery

J–L Infantry

J regiments 1–99
K regiments 100–199
L regiments 200–299

The individual regiment is markt by adding its number after the letter; E15, 15th regiment of cavalry; K49, 149th regiment of infantry. When there are more than 9 regiments in any of these groups 0 must be prefixt to the number for the 1st 9, e. g. J09, 9th regiment of infantry; otherwise the 9th regiment of infantry, J9, would be shelvd after the 89th, J89

For the border states which also had regiments on the Confederate side use similarly P–S

O Special brigades

P Cavalry

Q Hevy artillery

R Light artillery

S Infantry

For those states which past ordinances of secession (see list under 973.713) reverse these numbers using E–L for Confederate regiments and P–S for Union regiments

Special numbers must be arranged for unnumberd and peculiarly numberd regiments and companies

973.75 Naval history

During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campains and battles 973.73 and its subdivisions

.751 Events of 1861

Hatteras inlet, N. C. 28 Aug. See also 973.7316
Port Royal, S. C. 7 Nov. See also 973.7319
Belmont, Mo. 7 Nov. See also 973.7315
Trent affair 8 Nov. See also 973.722

.752 Events of 1862

Fort Henry, Tenn. 6 Feb. See also 973.7322
Roanoke iland, N. C. 7–8 Feb. See also 973.7324
Fort Donelson, Tenn. 14 Feb. See also 973.7322
Monitor and Merrimac 8–9 Mar.
Island nr 10, Ky. 16 Mar.–8 Ap. See also 973.7325
New Orleans, La. 18 Ap.–1 May See also 973.7321
Memphis, Tenn. 6 June See also 973.7325

.753 Events of 1863

Charleston, S. C. 7 Ap. See also 973.7331
Vicksburg, Miss. 16 Ap. See also 973.7343
Grand Gulf, Miss. 29 Ap. See also 973.7343

.754 Events of 1864

Red river, La. expedition 10 Mar.–22 May See also 973.7363
Sassacus and Albemarle, Albemarle sound, N. C. 5 May
See also 973.7365
Alabama and Kearsarge, off Cherbourg, France 19 June
Mobile bay, Ala. 5–22 Aug. See also 973.7372
Fort Fisher, N. C. 24 Dec. See also 973.7375

.755 Events of 1865

Fort Fisher, N. C. 14–15 Jan. See also 973.7383

.756 History of special squadrons or ships

Atlantic squadron
Gulf squadron

.757 Confederate navy

Including the history of special squadrons or ships

Alabama
Shenandoah
Florida

.758 Blockade and blockade running

.759 Privateers

.76 War meetings, celebrations, anniversaries, commemorations

See note under 973.36
For patriotic societies commemorating the civil war see 369.15–.17

.761 War meetings

.762

.763 Flags; presentations of flags; Battle-flag day

.764

.765 Monuments, memorials See also 718

.766

.767 Roll of honor List of ded For national cemeteries, see 718

.768 Memorial day

973.77 **Prisons, hospitals, charities, etc.**
.771 Southern prisons, prison life
1 Andersonville
2 Libby prison
.772 Northern prisons
.773 Exchange of prisoners, paroles
.774
.775 Medical dep't, surgeons, nurses For military surgery see 617.99
.776 Hospitals, hospital sketches
.777 Charities
Soldiers homes, see 362.8
Soldiers orphan asylums, see 362.7
Freedmen's bureau, see 361
Pensions, see 351.5
1 U. S. sanitary commission
2 Sanitary fairs
.778 Religious life, chaplains, revivals
1 U. S. Christian commission See also 267.11
.78 **Personal narrativs, vindication, secret servis**
Personal narrativs when relating to some special battle or event should be clast according to their subject
.781 Personal narrativs, northern side
Including volumes of G. A. R. papers and Loyal legion
.782 Personal narrativs, southern side
.783 Army life
.784 Southern army life, southern home life
.785 Secret servis, spies
.786 Southern side
.79 **Illustrativ material**
See note under 973.39
.791 Poetry
.792 Drama
.793 Fiction
.794 Addresses
.795 Sermons
.796 Humor
.797 Pictures
Paintings, drawings, caricatures, engravings, fotografs, sculpture
.798 Music
.799 Maps

.8 Later 19th century 1865–1901

Period of reconstruction and civil servis reform

.81 **Andrew Johnson** 15 Ap. 1865–4 Mar. 1869
Born 29 Dec. 1808; died 31 July 1875
13th amendment abolishing slavery, adopted 18 Dec. 1865
See also 326.8 and 342.739
Fenian invasion of Canada 31 May–2 June 1866 See also 971.048
Nebraska admitted, 37th state 1 Mar. 1867 See 978.2
Cession of Alaska by Russia 20 June 1867
Impeachment of Pres. Johnson Mar.–May 1868 See 351.99
14th amendment guaranteeing citizenship, adopted 28 July 1868
See 342.739

973.82 **Ulysses Simpson Grant** 4 Mar. 1869–4 Mar. 1877
Born 27 Ap. 1822; died 23 July 1885
Treaty for annexation of Santo Domingo, signd 29 Nov. 1869; rejected by senate 30 June 1870 See also 972.93
15th amendment guaranteeing suffrage, adopted 30 Mar. 1870
See 324.1 and 342.739
First provision for civil servis reform 3 Mar. 1871 See also 351.6
Geneva arbitration award 14 Sep. 1872 See 341.6; 973.722; 973.757
Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator 23 Oct. 1872
Crédit mobilier investigation Dec. 1872–Feb. 1873
Coinage act 12 Feb. 1873 See 332.47
Modoc war, California Nov. 1872–June 1873
Financial panic 19–30 Sep. 1873 See 332
Virginius incident Oct.–Dec. 1873
Whisky ring 1872–75 See 336.73
Civil rights act 1 Mar. 1875
Colorado admitted, 38th state 1 Aug. 1876 See 978.8
Centennial exposition, Philadelphia 10 May–10 Nov. 1876 See 606
Electoral commission Feb. 1877

.83 **Rutherford Birchard Hayes** 4 Mar. 1877–4 Mar. 1881
Born 4 Oct. 1822; died 17 Jan. 1893
Halifax fishery award 23 Nov. 1877
Bland silver act 28 Feb. 1878 See 332.47
Resumption of specie payment 1 Jan. 1879 See 332.5 and 336.73

.84 **James Abram Garfield** 4 Mar. 1881–19 Sep. 1881
Born 19 Nov. 1831; died 19 Sep. 1881

Chester Alan Arthur 19 Sep. 1881–4 Mar. 1885
Born 5 Oct. 1830; died 18 Nov. 1886
International cotton exposition 5 Oct.–31 Dec. 1881 See 606
Edmund act to suppress poligamy 22 Mar. 1882 See also 289.3
Pendleton civil servis reform act 11 Jan. 1883 See 351.6

.85 **Grover Cleveland** 4 Mar. 1885–4 Mar. 1889
Born 18 Mar. 1837; died 24 June 1908
Act regulating the presidential succession 19 Jan. 1886 See 353.03
Mexican war pension act 29 Jan. 1887 See 351.5
Act creating Interstate commerce commission 4 Feb. 1887 See 385
Dependent pension bil vetoed 11 Feb. 1887 See 351.5
Centennial anniversary of Constitution, Philadelphia, Pa. 15–17 Sep. 1887
Act to establish the Labor dep't 13 June 1888 See 331
Fisheries treaty, signd 15 Feb. 1888; rejected by senate 21 Aug. 1888
See 333.9 and 341.273
Act to make Agriculture dep't an executiv dep't 9 Feb. 1889
See also 630.61 and 353.8

973.86 **Benjamin Harrison** **4 Mar. 1889–4 Mar. 1893**
Born 20 Aug. 1833; died 13 Mar. 1901
Opening of Oklahoma 2 Ap. 1889 See 976.6
North Dakota admitted, 39th state 2 Nov. 1889 See 978.4
South Dakota admitted, 40th state 2 Nov. 1889 See 978.3
Montana admitted, 41st state 8 Nov. 1889 See 978.6
Washington admitted, 42d state 11 Nov. 1889 See 979.7
International Amer. conference 2 Oct. 1889–19 Ap. 1890 See 341.1
Idaho admitted, 43d state 3 July 1890 See 979.6
Wyoming admitted, 44th state 10 July 1890 See 978.7
Sherman silver act, repealing silver act of 1878 14 July 1890
See 332.47
McKinley tarif act 1 Oct. 1890 See 337.3
Controversy with Chile Oct. 1891–July 1892 See 983
Geary Chinese exclusion act 5 May 1892 See 325.251
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate, 15 Feb. 1893; withdrawn, 9 Mar. 1893 See 996.9

.87 **Grover Cleveland, second term** **4 Mar. 1893–4 Mar. 1897**
World's Columbian exposition, Chicago 1 May–30 Oct. 1893
See 606
Decision of Bering sea court of arbitration 15 Aug. 1893
Voorhees silver act 1 Nov. 1893 See 332.47
Wilson tarif act 27 Aug. 1894 See 337.2
Income tax law decided unconstitutional by U. S. supreme court 8 Ap. 1895 See 336.24
U. S. commission on boundary between Venezuela and British Guiana appointed 1 Jan. 1896 See 987
Utah admitted, 45th state 4 Jan. 1895 See 979.2

.88 **William McKinley** **4 Mar. 1897–14 Sep. 1901**
Born 29 Jan. 1844; died 14 Sep. 1901
Dingley tarif act 24 July 1897
Annexation of Hawaii 7 July 1898

.89 War with Spain
War declared 21 Ap. 1898
Protocol signd 12 Aug. 1898
Treaty of peace signd at Paris, 10 Dec. 1898; ratified, 11 Apr. 1899

.891 Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898
Acquisition of Philippines and Porto Rico

.892 Diplomatic history

.893 Special campains and battles
Siege of Santiago 22 June–17 July 1898
Battle of El Caney 1 July 1898

.894 General military history May be subdivided like 973.74

.895 Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
Destruction of Cervera's squadron 3 July 1898

.896 War meetings, celebrations, anniversaries
See note under 973.36
For patriotic societies commemorating the war with Spain see 369.181–.183

.897 Prisons, hospitals, etc.

.898 Personal narrativs

.899 Illustrativ material
See note under 973.39

973.91 **Erly 20th century** **1901–**

.911 **Theodore Roosevelt** **14 Sep. 1901–4 Mar. 1909**
Born 27 Oct. 1858; died 6 Jan. 1919
Oklahoma admitted, 46th state 16 Nov. 1907 See 976.6

.912 **William Howard Taft** **4 Mar. 1909–4 Mar. 1913**
Born 15 Sep. 1857
New Mexico admitted, 47th state 6 Jan. 1912 See 978.9
Arizona admitted, 48th state 14 Feb. 1912 See 979.1
16th amendment, authorizing income taxes, adopted 25 Feb. 1913

.913 **Woodrow Wilson** **4 Mar. 1913–4 Mar. 1921**
Born 28 Dec. 1856; died 3 Feb. 1924
The World war, begun with Austria's declaration of war against Serbia, 28 July 1914, was formally enterd by United States with a declaration of war against Germany, 6 Ap. 1917; armistice signd by the Germans 11 Nov. 1918; treaty of Versailles signd by treaty plenipotentiaries of Germany and the Allied Powers 28 June 1919; treaties with Germany, Austria and Hungary ratified by United States senate 18 Oct. 1921.
17th amendment; authorizing election of U S senators by direct popular vote, adopted 31 May 1913
Federal trade commission act 5 Aug. 1914
Panama canal opend 15 Aug. 1914
Danish West Indies bought 17 Jan. 1917
18th amendment (liquor prohibition) adopted 29 Jan. 1919
19th amendment; authorizing woman suffrage, adopted 18 Aug. 1920

.914 **Warren Gamaliel Harding** **4 Mar. 1921–2 Aug. 1923**
Born 2 Nov. 1865; died 2 Aug. 1923
Immigration act 19 Aug. 1921
Washington conference 12 Nov. 1921–6 Feb. 1922

.915 **Calvin Coolidge** **2 Aug. 1923–**
Born 4 July 1872
Dawes commission 1924

974 Northeastern or North Atlantic New England

.1 Maine

Admitted 15 Mar. 1820 as 23d state
Area 33,040 sq. mi. 16 counties Population 768,014 in 1920
Sobriquets: Pinetree state, Polar Star state Capital: Augusta

		Population in 1920	
.11	Aroostook	81 728	
.12	Somerset	37 171	
	Piscataquis	20 554	
.13	Penobscot	87 684	
.14	Washington	41 709	
	Hancock	30 361	
.15	Waldo	21 328	
	Knox	26 245	
	Lincoln	15 976	
.16	Kennebec	63 844	
.17	Franklin	19 825	
	Oxford	37 700	
.18	Androscoggin	65 796	
	Sagadahoc	23 021	
.19	Cumberland	124 376	
	Portland		*69 272*
	York	70 696	

.2 New Hampshire

Area 9341 sq. mi. 10 counties Population 443,083 in 1920
Sobriquet: Granit state Capital: Concord

		Population in 1920	
.21	Coos	36 093	
.22	*White mts*		
.23	Grafton	40 572	
.24	Carroll	15 017	
	Belknap	21 178	
.25	Strafford	38 546	
.26	Rockingham	52 498	
.27	Merrimac	51 770	
	Sullivan	20 922	
.28	Hillsboro	135 512	
.29	Cheshire	30 975	

.3 Vermont

Area 9564 sq. mi. 14 counties Population 352,428 in 1920
Sobriquet: Green Mt state Capital: Montpelier

		Population in 1920	
.31	Grand Isle	3 784	
	Franklin	30 026	
	Chittenden	43 708	
.32	Orleans	23 913	
	Essex	7 364	
.33	Caledonia	25 762	
	Lamoille	11 858	
.34	Washington	38 921	
.35	Addison	18 666	
.36	Orange	17 279	
	Windsor	36 984	
.37	Rutland	46 213	
.38	Bennington	21 577	
.39	Windham	26 373	

974.4 Massachusetts

Area 8266 sq. mi. 14 counties
Population 3,852,356 in 1920
Sobriquet: Bay state Capital: Boston

		Population in 1920	
.41	Berkshire	113 033	
.42	Franklin	49 361	
	Hampshire	69 599	
	Hampden	300 305	
.43	Worcester	455 135	
.44	Middlesex	778 352	
.45	Essex	482 156	
.46	Suffolk	835 522	
	Boston		*748 060*
.47	Norfolk	219 081	
.48	Plymouth	156 968	
	Bristol	359 005	
.49	Barnstable	26 670	
	Dukes	4 372	
	Nantucket	2 797	

.5 Rhode Island

Area 1248 sq. mi. 5 counties
Population 604,397 in 1920
Sobriquet: Little Rhody Capital: Providence

		Population in 1920	
.51	Providence	475 190	
.52	*Providence* (city)		*237 595*
.53	*Pawtucket* "		*64 248*
.54	Kent	38 269	
.55	Bristol	23 113	
.56	Newport	42 893	
.57	*Newport* (city)		*30 255*
.58	*Block iland*		
.59	Washington	24 932	

.6 Connecticut

Area 4965 sq. mi. 8 counties
Population 1,380,631 in 1920
Sobriquet: Wooden Nutmeg state Capital: Hartford

		Population in 1920	
.61	Litchfield	76 262	
.62	Hartford	336 027	
.63	*Hartford* (city)		*138 036*
.64	Tolland	27 216	
	Windham	52 815	
.65	New London	104 611	
.66	Middlesex	47 550	
.67	New Haven	415 214	
.68	*New Haven* (city)		*162 537*
.69	Fairfield	320 936	

974.7 New York

Area 49,204 sq. mi. 61 counties (exclusiv of Bronx)
Population 10,385,227 in 1920
Sobriquet: Empire state Capital: Albany

		Population in 1920	
.71	*New York* (city)	5 620 048	
.72	Vicinity of New York city		
.721	**Long Island**		*2 723 764*
.722	Kings county	2 018 356	
.723	*Brooklyn*		*2 018 356*
.724	Queens county	469 042	
5	Nassau "	126 120	
.725	Suffolk "	110 246	
.726	Richmond " Staten Island	116 531	
.727	Westchester "	344 436	
5	*Bronx boro* (and county)	732 016	
.728	Rockland county	45 548	
.73	Southeast counties		
.731	Orange, *West Point*	119 844	
.732	Putnam	10 802	
.733	Dutchess	91 747	
.734	Ulster	74 979	
.735	Sullivan	33 163	
.736	Delaware	42 774	
.737	Green	25 796	
.738	*Catskill mts*		
.739	Columbia	38 930	
.74	Middle east counties		
.741	Rensselaer	113 129	
	Troy		*72 013*
.742	Albany	186 106	
.743	*Albany* (city)		*113 344*
.744	Schenectady	109 363	
.745	Schoharie	21 303	
.746	Montgomery	57 928	
.747	Fulton	44 927	
.748	Saratoga	60 029	
.749	Washington	44 888	
.75	Northern counties		
.751	Warren	31 673	
	Lake George		
.752	Hamilton	3 970	
.753	Essex	31 871	
	Adirondaks		
.754	Clinton	43 898	
	Lake Champlain		
.755	Franklin	43 541	
.756	St Lawrence	88 121	
.757	Jefferson	82 250	
.758	*Thousand Islands*		
.759	Lewis	23 704	

New York

		Population in 1920	
974.76	North central counties		
.761	Herkimer	64 962	
.762	Oneida	182 833	
.763	*Utica*		*94 156*
.764	Madison	39 535	
.765	Onondaga	241 465	
.766	*Syracuse*		*171 717*
.767	Oswego	71 045	
.768	Cayuga	65 221	
769	Seneca	24 735	
.77	South central counties		
.771	Tompkins	35 285	
.772	Cortland	29 625	
.773	Chenango	34 969	
.774	Otsego	46 200	
.775	Broome	113 610	
.776	*Binghamton*		*66 800*
.777	Tioga	24 212	
.778	Chemung	65 872	
.779	*Elmira*		*45 393*
.78	West central counties		
.781	Schuyler	13 098	
.782	Yates	16 641	
.783	Steuben	80 627	
.784	Allegany	36 842	
.785	Livingston	36 830	
.786	Ontario	52 652	
.787	Wayne	48 827	
.788	Monroe	352 034	
.789	*Rochester*		*295 750*
.79	Western counties		
.791	Orleans	28 619	
.792	Genesee	37 976	
.793	Wyoming	30 314	
.794	Cattaraugus	71 323	
.795	Chautauqua	115 348	
.796	Erie	634 688	
.797	*Buffalo*		*506 775*
.798	Niagara	118 705	
.799	*Niagara Falls*		*50 760*

974.8 Pennsylvania

In territory claimd in 17th century by Sweden and then cald New Sweden or New Swedeland
Area 45,126 sq. mi. 67 counties
Population 8,720,017 in 1920
Sobriquet: Keystone state Capital: Harrisburg

.81	Southeast counties Philadelphia and Chester group		
		Population in 1920	
.811	Philadelphia (co. and city)	1 823 779	
.812	Montgomery	199 310	
.813	Chester	115 120	
.814	Delaware	173 084	
.815	Lancaster	173 797	
.816	Berks	200 854	
.817	Schuylkill	217 754	
.818	Dauphin	153 116	
.819	Lebanon	63 152	
.82	Eastern counties Bucks group		
.821	Bucks	82 476	
.822	Northampton	153 506	
823	Wayne	27 435	
.824	Pike	6 818	
.825	Monroe	24 295	
.826	Carbon	62 565	
.827	Lehigh	148 101	
.83	Northeast counties Northumberland group		
.831	Northumberland	122 079	
.832	Luzerne	390 991	
.833	*Wilkesbarre*		*73 833*
.834	Susquehanna	34 763	
.835	Wyoming	14 101	
.836	Lackawanna	286 311	
.837	*Scranton*		*137 783*
.838	Columbia	48 349	
.839	Montour	14 080	
.84	Southeast central counties Cumberland group		
.841	York	144 521	
.842	Adams	34 583	
.843	Cumberland	58 578	
.844	Franklin	62 275	
.845	Perry	22 875	
.846	Mifflin	31 439	
.847	Juniata	14 464	
.848	Union	15 850	
.849	Snyder	17 129	
.85	Northeast central counties East Lycoming group		
.851	Lycoming	83 100	
.852			
.853	Center	44 304	
854	Clinton	33 555	
855	Potter	21 089	
.856	Tioga	37 118	
.857	Bradford	53 166	
.858			
.859	Sullivan	9 520	

Pennsylvania

974.86	Northwest central counties West Lycoming group		
		Population in 1920	
.861	Clearfield	103 236	
.862	Jefferson	62 104	
.863	McKean	48 934	
.864			
.865	Elk	34 981	
.866	Cameron	6 297	
.867	Warren	40 024	
.868	Forest	7 477	
.869	Clarion	36 170	
.87	Southwest central counties Bedford group		
.871	Bedford	38 277	
.872	Fulton	9 617	
.873	Huntingdon	39 848	
.874			
.875	Blair	128 334	
.876	*Altoona*		*60 331*
.877	Cambria	197 839	
.878			
.879	Somerset	82 112	
.88	Southwest counties Westmoreland group		
.881	Westmoreland	273 568	
.882	Washington	188 992	
.883	Greene	30 804	
.884	Fayette	188 104	
.885	Allegheny	1 185 808	
.886	*Pittsburgh*		*588 343*
.887	*Allegheny City* Annext to Pittsburgh in 1907		
.888	Armstrong	75 568	
.889	Indiana	80 910	
.89	Northwest counties Allegheny group		
.891	Butler	77 270	
.892	Beaver	111 621	
.893	Lawrence	85 545	
.894			
.895	Mercer	93 788	
.896	Venango	59 184	
.897	Crawford	60 667	
.898			
.899	Erie	153 536	

.9 New Jersey

Area 8224 sq. mi. 21 counties
Population 3,155,900 in 1920
Sobriquet: Jersey Blue state Capital: Trenton

.91	East Jersey	*Population in 1920*	
.92	Northern counties		
.921	Bergen	210 703	
.922			
.923	Passaic	259 174	
.924	*Paterson*		*135 875*
.925			
.926	Hudson	629 154	
.927	*Jersey City*		*298 103*
.928	*Hoboken*		*68 166*

New Jersey

974.93	Central counties		
		Population in 1920	
.931	Essex	652 089	
.932	*Newark*		*414 524*
.933	*Orange*		*33 268*
.934			
.935			
.936	Union	200 157	
.937	*Elizabeth*		*95 783*
.938	*Rahway*		*11 042*
.94	Southern counties		
.941	Middlesex	162 334	
.942	*New Brunswick*		*32 779*
.943			
.944	Somerset	47 991	
.945			
.946	Monmouth	104 925	
.947			
.948	Ocean	22 155	
.95	West Jersey		
.96	Central counties		
.961	Burlington	81 770	
.962			
.963			
.964			
.965	Mercer	159 881	
.966	*Trenton*		*119 289*
.967	*Princeton*		*5 917*
.97	Northern counties		
.971	Hunterdon	32 885	
.972	*Raritan*		*4 457*
.973			
.974	Morris	82 694	
.975			
.976	Sussex	24 905	
.977			
.978	Warren	45 057	
.98	Upper southern counties		
.981	Gloucester	48 224	
.982			
.983			
.984	Atlantic	83 914	
.985			
.986			
.987	Camden	190 508	
.988	*Camden* (city)		*116 309*
.99	Lower southern counties		
.991	Salem	36 572	
.992	*Salem City*		*7 435*
.993			
.994	Cumberland	61 348	
.995	*Bridgeton*		*14 323*
.996			
.997			
.998	Cape May	19 460	

975 Southeastern or South Atlantic

Including general works on the South

.1 Delaware

Area 1965 sq. mi.
Population 223,003 in 1920 3 counties
Sobriquets: Blue Hen state, Diamond state Capital: Dover

		Population in 1920	
.11	Newcastle	148 239	
.12	*Wilmington*		*110 168*
.14	Kent	31 023	
.17	Sussex	43 741	

.2 Maryland

Area 12,327 sq. mi.
Population 1,449,661 in 1920 23 counties and Baltimore city
Sobriquet: Old Line state Capital: Annapolis

.21	Eastern Maryland		
.221	Worcester	22 309	
.223	Somerset	24 602	
.225	Wicomico	28 165	
.227	Dorchester	27 895	
.231	Caroline	18 652	
.232	Talbot	18 306	
.234	Queen Annes	16 001	
.236	Kent	15 026	
.238	Cecil	23 612	
.24	Southern Maryland		
.241	St Marys	16 112	
.244	Calvert	9 744	
.247	Charles	17 705	
.251	Prince Georges	43 347	
.255	Anne Arundel	43 408	
.256	*Annapolis*		*11 214*
.26	*Baltimore* (city)	733 826	
.27	North central		
.271	Baltimore	74 817	
.274	Harford	29 291	
.277	Carroll	34 245	
.281	Howard	15 826	
.284	Montgomery	34 921	
.287	Frederick	52 541	
.288	*Frederick* (city)		*11 066*
.29	Western		
.291	Washington	59 694	
.292	*Hagerstown*		*28 064*
.294	Allegany	69 938	
.295	*Cumberland*		*29 837*
.297	Garrett	19 678	

.3 District of Columbia, Washington (city)

Area 70 sq. mi.
Population (Washington) 437,571 in 1920

975.4 West Virginia

19 June 1863 admitted as 35th state Area 24,780 sq. mi.
Population 1,463,701 in 1920 55 counties
Sobriquet: Panhandle state Capital: Charleston

OUTLINE

.41	**Ohio valley**	
.411	Northern Panhandle	
.42	Little Kanawha valley	
.43	Kanawha valley	
.44	Southwestern border counties	
.441	Guyandotte valley	
.446	Tug valley	
.45	**Central plateau**	
.451	Monongahela valley	
.46	Central counties	
464	Elk valley	
.468	Gauley valley	
.47	New River valley	
.48	**Alleghany crest**	Mountain counties
.481	Cheat valley	
.486	Greenbrier valley	
.49	Eastern Panhandle	Potomac valley

.41 Ohio valley

.411 Northern Panhandle

		Population in 1920	
.412	Hancock	19 975	
.413	Brooke	16 527	
.414	Ohio	62 892	
.415	*Wheeling*		*56 208*
.416	Marshall	33 681	
.417			
.418	Wetzel	23 069	
.419	Tyler	14 186	

.42 Little Kanawha valley

.421	Pleasants	7 379	
.422	Wood	42 306	
.423	*Parkersburg*		*20 050*
.424	Ritchie	16 506	
.425			
.426	Wirt	7 536	
.427	Gilmer	10 668	
.428			
.429	Calhoun	10 268	

.43 Kanawha valley

.431	Jackson	18 658	
.432			
.433	Mason	21 459	
.434			
.435	Putnam	17 531	
.436	Roane	20 129	
.437	Kanawha	119 650	
.438	*Charleston*		*39 608*
.439	Boone	15 319	

West Virginia: Ohio valley

975.44 Southwestern border counties

.441	Guyandotte valley	*Population in 1920*	
.442	Cabell	65 746	
.4421	*Huntington*		*50 177*
.443	Lincoln	19 378	
.444	Logan	41 006	
.445	Wyoming	15 180	
.446	Tug valley		
.447	Wayne	26 012	
.448	Mingo	26 364	
449	McDowell	68 571	

.45 Central plateau

.451 Monongahela valley

.452	Monongalia	33 618	
.453	*Morgantown*		*12 127*
.454	Marion	54 571	
.455	Taylor	18 742	
.456	Doddridge	11 976	
.457	Harrison	74 793	
.458	*Clarksburg*		*27 869*
.459	Barbour	18 028	

.46 Central counties

.461	Lewis	20 455	
.462	Upshur	17 851	
.464	Elk valley		
.465	Webster	11 562	
.466	Braxton	23 973	
.467	Clay	11 486	
.468	Gauley valley		
.469	Nicholas	20 717	

.47 New River valley

.471	Fayette	60 377	
.473	Raleigh	42 482	
.474	Mercer	49 558	
.476	Summers	19 092	
.478	Monroe	13 141	

.48 Alleghany crest Mountain counties

.481 Cheat valley

.482	Preston	27 996	
.483	Tucker	16 791	
.484			
.485	Randolph	26 804	

.486 Greenbrier valley

.487	Pocahontas	15 002	
.488	Greenbrier	26 242	
.489	*White Sulphur Springs*		*837*

.49 Eastern Panhandle Potomac valley

.491	Pendleton	9 652	
.492	Grant	8 993	
.493	Hardy	9 601	
.494	Mineral	19 849	
.495	Hampshire	11 713	
.496	Morgan	8 357	
.497	Berkeley	24 554	
.498			
.499	Jefferson	15 729	

975.5 Virginia

17 Ap. 1861 seceded; 26 Jan. 1870 readmitted Area 40,262 sq. mi.
Population 2,309,187 in 1920 100 counties and 20 independent cities
Sobriquets: Old Dominion, Mother of Presidents Capital: Richmond

.51	Atlantic coast	*Population in 1920*
.513	Eastern peninsula counties	
.515	Northampton	17 852
.516	Accomac	34 795
.518	Chesapeake bay	
.52	Potomac counties	Northern neck
.521	Northumberland	11 518
.522	Lancaster	9 757
.523	Richmond	7 434
.524	Westmoreland	10 240
.525	King George	5 762
.526	Stafford	8 104
.527	Prince William	13 660
5	Fauquier	21 869
.528	Loudoun	20 577
.529	Fairfax	21 943
5	Arlington	16 040
6	*Alexandria* (city)	18 060
.53	Rappahannock-York counties	
.531	Mathews	8 447
.532	Gloucester	11 894
.533	Middlesex	8 157
.534	Essex	8 542
.535	King and Queen	9 161
5	King William	8 739
.536	Caroline	15 954
5	Spotsylvania	10 571
6	*Fredericksburg*	5 882
.537	Orange	13 320
5	Greene	6 369
.538	Madison	9 595
.539	Culpeper	13 292
5	Rappahannock	8 070
.54	York-James counties	
.541	Elizabeth City co.	25 249
5	Warwick	11 417
6	*Newport News*	35 596
.542	York	8 046
5	James City co.	6 138
.543	New Kent	4 541
.544	Charles City co.	4 793
.545	Henrico	18 972
1	*Richmond* (city)	171 667
5	Goochland	8 863
.546	Hanover	18 088
5	Louisa	17 089
.547	Fluvanna	8 547
.548	Albemarle	26 005
1	*Charlottesville*	10 688
.549	Nelson	17 277
6	Amherst	19 771

Virginia

975.55	Southeastern counties	*Population in 1920*
.551	Princess Anne	13 626
.552	Norfolk	57 358
1	*Norfolk* (city)	115 777
2	*Portsmouth*	54 387
.553	Nansemond	20 199
1	*Suffolk*	9 123
.554	Isle of Wight	14 433
.555	Southampton	27 555
.556	Surry	9 305
5	Sussex	12 834
.557	Greensville	11 606
5	Brunswick	21 025
.558	Dinwiddie	17 949
1	*Petersburg*	31 012
5	Prince George	12 915
6	*Hopewell*	1 397
.559	Chesterfield	20 496
.56	South central counties	
.561	Powhatan	6 552
5	Cumberland	9 111
.562	Buckingham	14 885
5	Appomattox	9 255
.563	Prince Edward	14 767
4	Amelia	9 800
7	Nottoway	14 161
.564	Lunenburg	15 260
5	Mecklenburg	31 208
.565	Charlotte	17 540
.566	Halifax	41 374
5	Pittsylvania	56 493
6	*Danville*	21 539
.567	Campbell	26 716
1	*Lynchburg*	30 070
5	Bedford	30 669
.568	Franklin	26 283
.569	Henry	20 238
5	Patrick	16 850

Virginia

		Population in 1920
975.57	Southwestern counties	
.571	Floyd	13 115
4	Carroll	21 283
7	Grayson	19 816
.572	Smyth	22 125
5	Washington	32 376
6	*Bristol*	6 729
.573	Scott	24 776
5	Lee	25 293
.574	Wise	46 500
5	Dickenson	13 542
.575	Buchanan	15 441
5	Russell	26 786
.576	Tazewell	27 840
5	Bland	5 593
.577	Wythe	20 217
5	Pulaski	17 111
.578	Giles	11 901
5	Montgomery	18 595
6	*Radford*	4 627
.579	Roanoke	22 395
1	*Roanoke* (city)	50 842
5	Craig	4 100
.58	Central western counties	
.581	Alleghany	15 332
1	*Clifton Forge*	6 164
.583	Botetourt	16 557
.585	Rockbridge	20 626
1	*Buena Vista*	3 911
.587	Bath	6 389
.589	Highland	4 931
.59	Northwestern counties	Shenandoah valley
.591	Augusta	34 671
1	*Staunton*	10 623
.592	Rockingham	30 047
1	*Harrisonburg*	5 875
.594	Page	14 770
.595	Shenandoah	20 808
.597	Warren	8 852
.598	Clarke	7 165
.599	Frederick	12 461
1	*Winchester*	6 863

.6 North Carolina

20 May 1861 seceded; 25 June 1868 readmitted — Area 48,740 sq. mi.
Population 2,559,123 in 1920 — 100 counties
Sobriquet: Old North state — Capital: Raleigh

.7 South Carolina

20 Dec. 1860 seceded; 25 June 1868 readmitted — Area 30,495 sq. mi.
Population 1,683,724 in 1920 — 46 counties
Sobriquet: Palmetto state — Capital: Columbia

.8 Georgia

19 Jan. 1861 seceded; 25 June 1868 readmitted — Area 58,725 sq. mi.
Population 2,895,832 in 1920 — 155 counties
Sobriquet: Cracker state — Capital: Atlanta

975.9 Florida

1512 discoverd by Ponce de Leon; 1565 settled by Spaniards; 22 Feb. 1819 bought of Spain
30 Mar. 1822 organized as territory
3 Mar. 1845 admitted as 27th state
10 Jan. 1861 seceded; 25 June 1868 readmitted — Area 54,861 sq. mi.
Population 968,470 in 1920 — 66 counties
Sobriquets: Everglade, Gulf state — Capital: Tallahassee

		Population in 1920	
.91	Northeast counties		
.911	Nassau	11 340	
.912	Duval	113 540	
1	*Jacksonville*		*91 558*
.913	Baker	5 622	
.914	Union }	12 503	
.915	Bradford }		
.916	Clay	5 621	
.917	Putnam	14 568	
.918	St Johns	13 061	
1	*St Augustine*		*6 192*
.919	Flagler	2 442	
.92	East central counties		
.921	Volusia	23 374	
1	*New Smyrna*		
.922	Lake	12 744	
.923	Seminole	10 986	
.924	Orange	19 890	
1	*Orlando*		*9 282*
.925	Osceola	7 195	
.927	Brevard	8 505	
.928	Indian River }	7 886	
.929	St Lucie }		
.93	Southeast coast		
.931	Martin }	18 654	
.932	Palm Beach }		
.935	Broward	5 135	
.938	Dade	42 753	
1	*Miami*		*29 571*
.94	Southwest coast		
.941	Monroe	19 550	
1	*Key West*		*18 749*
.944	Collier }	9 540	
.946	Hendry }		
.948	Lee }		
.949	Charlotte	Included in population for 975.95	

Florida

975.95	South central counties	*Population in 1920*	
.951	Glades		
.953	Okeechobee		
.955	Highlands	27 566	(including Charlotte co. 975.949)
.957	Hardee		
.959	De Soto		
.96	West central counties		
.961	Sarasota	18 712	
.962	Manatee		
.963	Pinellas	28 265	
1	*St Petersburg*		*14 237*
.965	Hillsborough	88 257	
1	*Tampa*		*51 608*
.967	Polk	38 661	
.969	Pasco	8 802	
.97	Northern west central counties		
.971	Hernando	4 548	
.972	Citrus	5 220	
.973	Sumter	7 851	
.975	Marion	23 968	
.977	Levy	9 921	
.979	Alachua	31 689	
.98	North central counties		
.981	Dixie	6 242	
6	Lafayette		
.982	Suwanee	19 789	
.983	Columbia	14 290	
.984	Hamilton	9 873	
.985	Madison	16 516	
.986	Taylor	11 219	
.987	Jefferson	14 502	
.988	Leon	18 059	
1	*Tallahassee*		*5 637*
.989	Wakulla	5 129	
.99	Northwestern counties		
.991	Franklin	5 318	
.992	Liberty	5 006	
5	Gadsden	23 539	
.993	Jackson	31 224	
.994	Calhoun	8 775	
7	Gulf		
.995	Bay	11 407	
.996	Washington	11 828	
5	Holmes	12 850	
.997	Walton	12 119	
.998	Okaloosa	9 360	
5	Santa Rosa	13 670	
.999	Escambia	49 386	
1	*Pensacola*		*31 035*

976 South Central or Gulf

.1 Alabama

1702 settled by French
14 Dec. 1819 admitted as 22d state
11 Jan. 1861 seceded; 25 June 1868 readmitted Area 51,279 sq. mi.
Population 2,348,174 in 1920 67 counties
Sobriquet: Land of Flowers Capital: Montgomery

.2 Mississippi

7 Ap. 1798 organized as territory; 10 Dec. 1817 admitted as 20th state
9 Jan. 1861 seceded; 17 Feb. 1870 readmitted Area 46,362 sq. mi.
Population 1,790,618 in 1920 82 counties
Sobriquet: Bayou state Capital: Jackson

.3 Louisiana

1699 settled by French 30 Ap. 1803 bought of France 1 Oct. 1804 organized as Territory of Orleans
30 Ap. 1812 Louisiana admitted as 18th state
26 Jan. 1861 seceded; 25 June 1868 readmitted Area 45,409 sq. mi.
Population 1,798,509 in 1920 64 parishes
Sobriquets: Pelican state, Creole state Capital: Baton Rouge

.4 Texas

20 Dec. 1835 independence from Mexico declared; 2 Mar. 1836 republic formd
29 Dec. 1845 annext as 28th state
1 Feb. 1861 seceded; 30 Mar. 1870 readmitted Area 262,398 sq. mi.
Population 4,663,228 in 1920 253 counties
Sobriquet: Lone Star state Capital: Austin

.5

.6 Indian Territory Oklahoma

30 June 1834 assignd to Indians (part of Louisiana purchase)
Area 30,790 sq. mi.
Population 800,000 in 1906
Oklahoma organized as separate territory 2 May 1890
16 Nov. 1907 admitted as 46th state Area 69,414 sq. mi.
Population 2,028,283 in 1920 77 counties
Sobriquet: Sooner state Capital: Guthrie

.7 Arkansas

4 June 1812 included in Missouri territory; 2 Mar. 1819 organized as Arkansas territory
15 June 1836 admitted as 25th state
6 May 1861 seceded; 22 June 1868 readmitted Area 52,525 sq. mi.
Population 1,752,204 in 1920 75 counties
Sobriquet: Bear state Capital: Little Rock

.8 Tennessee

1769 settled from Virginia; 14 Dec. 1784 organized by settlers as state of Franklin (or Frankland)
1 June 1796 admitted as 16th state
8 June 1861 seceded; 24 July 1866 readmitted Area 41,687 sq. mi.
Population 2,337,885 in 1920 95 counties
Sobriquet: Big Bend state Capital: Nashville

.9 Kentucky

1775 settled by Daniel Boone; 29 May 1790 territory organized
1 June 1792 admitted as 15th state Area 40,181 sq. mi.
Population 2,416,630 in 1920 120 counties
Sobriquet: Blue Grass state Capital: Frankfort

977 North Central or Lake

.1 Ohio

19 Feb 1803 admitted as 17th state Area 40,760 sq. mi.
Population 5,759,394 in 1920 88 counties
Sobriquet: Buckeye state Capital: Columbus

		Population in 1920	
.11	Northwest counties		
.111	Williams	24 627	
5	Fulton	23 445	
.112	Lucas	275 721	
.113	*Toledo*		*243 164*
.114	Defiance	24 549	
.115	Henry	23 362	
.116	Wood	44 892	
.117	Paulding	18 736	
.118	Putnam	27 751	
.119	Hancock	38 394	
1	*Findlay*		*17 021*
.12	Central north counties		
.121	Ottawa	22 193	
4	Sandusky	37 109	
.122	Erie	39 789	
1	*Sandusky* (city)		*22 897*
.123	Lorain	90 612	
1	*Lorain* (city)		*37 295*
.124	Seneca	43 176	
1	*Tiffin*		*14 375*
.125	Huron	32 424	
.126	Wyandot	19 481	
.127	Crawford	36 054	
.128	Richland	55 178	
1	*Mansfield*		*27 824*
.129	Ashland	24 627	
.13	Northeast counties		
.131	Cuyahoga	943 495	
.132	*Cleveland*		*796 841*
.133	Lake	28 667	
5	Geauga	15 036	
.134	Ashtabula	65 545	
1	*Ashtabula* (city)		*22 082*
.135	Medina	26 067	
.136	Summit	286 065	
1	*Akron*		*208 435*
.137	Portage	36 269	
.138	Trumbull	83 920	
.139	Mahoning	186 310	
1	*Youngstown*		*132 358*

Ohio

		Population in 1920	
977.14	Central west counties		
.141	Van Wert	28 210	
5	Mercer	26 872	
.142	Allen	68 223	
1	*Lima*		*41 326*
.143	Auglaize	29 527	
.144	Hardin	29 167	
.145	Shelby	25 923	
.146	Logan	30 104	
5	Champaign	25 071	
.147	Darke	42 911	
.148	Miami	48 428	
1	*Piqua*		*15 044*
.149	Clark	80 728	
1	*Springfield*		*60 840*
.15	Central counties		
.151	Marion	42 004	
1	*Marion* (city)		*27 891*
6	Morrow	15 570	
.152	Knox	29 580	
.153	Union	20 918	
5	Delaware	26 013	
.154	Licking	56 426	
1	*Newark*		*26 718*
.155	Madison	19 662	
.156	Franklin	283 951	
.157	*Columbus*		*237 031*
.158	Fairfield	40 484	
.159	Perry	36 098	
.16	Central east counties		
.161	Wayne	41 346	
.162	Stark	177 218	
1	*Canton*		*87 091*
3	*Massillon*		*17 428*
.163	Columbiana	83 131	
1	*East Liverpool*		*21 411*
.164	Holmes	16 965	
.165	Coshocton	29 595	
.166	Tuscarawas	63 578	
.167	Carroll	15 942	
.168	Harrison	19 625	
.169	Jefferson	77 580	
1	*Steubenville*		*28 508*

Ohio

977.17	Southwest counties	*Population in 1920*	
.171	Preble	23 238	
.172	Montgomery	209 532	
.173	*Dayton*		*152 559*
.174	Greene	31 221	
.175	Butler	87 025	
	Hamilton (city)		*39 675*
.176	Warren	25 716	
5	Clinton	23 036	
.177	Hamilton	493 678	
.178	*Cincinnati*		*401 247*
.179	Clermont	28 291	
6	Brown	22 621	
.18	Central south counties		
.181	Fayette	21 518	
5	Pickaway	25 788	
.182	Ross	41 556	
1	*Chillicothe*		*15 831*
.183	Hocking	23 291	
7	Vinton	12 075	
.184	Highland	27 610	
7	Pike	14 151	
.185	Jackson	27 342	
.186	Adams	22 403	
.187	Scioto	62 850	
	Portsmouth		*33 011*
.188	Lawrence	39 540	
1	*Ironton*		*14 007*
.189	Gallia	23 311	
.19	Southeast counties		
.191	Muskingum	57 980	
1	*Zanesville*		*29 569*
.192	Guernsey	45 352	
.193	Belmont	93 193	
.194	Morgan	14 555	
.195	Noble	17 849	
.196	Monroe	20 660	
.197	Athens	50 430	
.198	Washington	43 049	
1	*Marietta*		*15 140*
.199	Meigs	26 189	

977.2 Indiana

1809 Indiana territory with present boundaries establisht
11 Dec. 1816, Indiana admitted as 19th state
Population 2,930,390 in 1920 92 counties Area 36,350 sq. mi.
Sobriquet: Hoosier state Capital: Indianapolis

.21	Southeast counties	*Population in 1920*	
.211	Dearborn	20 033	
.212	Ohio	4 024	
	Switzerland	9 311	
.213	Jefferson	20 709	
.214	Ripley	18 694	
.215	Franklin	14 806	
.216	Decatur	17 813	
.217	Jennings	13 280	
.218	Scott	7 424	
	Clark	29 381	
	Jeffersonville		*10 098*
.219	Floyd	30 661	
	New Albany		*22 992*
.22	Central south counties		
.221	Harrison	18 656	
.222	Washington	16 645	
.223	Jackson	24 228	
.224	Bartholomew	23 887	
.225	Brown	7 019	
	Monroe	24 519	
.226	Lawrence	28 228	
.227	Orange	16 974	
.228	Crawford	11 201	
.229	Perry	16 692	
.23	Southwest counties		
.231	Spencer	18 400	
.232	Warrick	19 862	
.233	Vanderburg	92 293	
	Evansville		*85 264*
.234	Posey	19 334	
.235	Gibson	29 201	
.236	Pike	18 684	
.237	Dubois	19 915	
.238	Martin	11 865	
	Daviess	26 856	
.239	Knox	46 195	
.24	West central counties		
.241	Sullivan	31 630	
.242	Greene	36 770	
.243	Owen	12 760	
.244	Clay	29 447	
.245	Vigo	100 212	
	Terre Haute		*66 083*
.246	Vermilion	27 625	
	Parke	18 875	
.247	Fountain	18 823	
.248	Montgomery	28 490	
.249	Putnam	19 880	

Indiana

977.25	Central counties	*Population in 1920*	
.251	Morgan	20 010	
	Johnson	20 739	
.252	Marion	348 061	
	Indianapolis		*314 194*
.253	Hendricks	20 291	
.254	Boone	23 575	
.255	Clinton	27 737	
	Tipton	16 152	
.256	Hamilton	24 222	
.257	Madison	69 151	
	Anderson		*29 767*
.258	Hancock	17 210	
.259	Shelby	25 982	
.26	East central counties		
.261	Rush	19 241	
.262	Fayette	17 142	
	Union	6 021	
.263	Wayne	48 136	
	Richmond		*26 765*
.264	Henry	34 682	
265	Delaware	56 377	
	Muncie		*36 524*
.266	Randolph	26 484	
.267	Jay	23 313	
.268	Blackford	14 084	
.269	Grant	51 353	
.27	Northeast counties		
.271	Huntington	31 671	
.272	Wells	20 509	
.273	Adams	20 503	
.274	Allen	114 303	
	Fort Wayne		*86 549*
.275	Whitley	15 660	
.276	Noble	22 470	
.277	Dekalb	25 600	
.278	Steuben	13 360	
.279	Lagrange	14 009	
.28	Central north counties		
.281	Elkhart	56 384	
.282	Kosciusko	27 120	
.283	Wabash	27 231	
.284	Miami	28 668	
.285	Howard	43 965	
.286	Cass	38 333	
	Logansport		*21 626*
.287	Fulton	16 478	
.288	Marshall	23 744	
.289	St Joseph	103 304	
	South Bend		*70 983*

Indiana

977.29	Northwest counties	*Population in 1920*	
.291	Laporte	50 443	
	Michigan City		*19 457*
.292	Starke	10 278	
	Pulaski	12 385	
.293	White	17 351	
294	Carroll	16 315	
.295	Tippecanoe	42 813	
	Lafayette		*22 486*
.296	Warren	9 699	
.297	Benton	12 206	
	Newton	10 144	
	Jasper	13 961	
.298	Porter	20 256	
.299	Lake	159 957	

.3 Illinois

1809 Illinois territory formd 3 Dec. 1818 Illinois admitted
Area 56,043 sq. mi. Population 6,485,280 in 1920 102 counties
Sobriquet: Prairie state Capital: Springfield

		Population in 1920	
.31	Cook	3 053 017	
	Chicago		*2 701 705*
.32	Northeast counties		
.321	Lake	74 285	
.322	McHenry	33 164	
.323	Kane	99 499	
	Aurora		*36 397*
	Elgin		*27 454*
.324	Dupage	42 120	
.325	Will	92 911	
	Joliet		*38 442*
.326	Kendall	10 074	
	Grundy	18 580	
.327	Lasalle	92 925	
	Streator		*14 779*
.328	Dekalb	31 339	
.329	Boone	15 322	
.33	Northwest counties		
.331	Winnebago	90 929	
	Rockford		*65 651*
.332	Ogle	26 830	
.333	Stephenson	37 743	
	Freeport		*19 669*
.334	Jo Daviess	21 917	
	Carroll	19 345	
.335	Whiteside	36 174	
.336	Lee	28 004	
.337	Bureau	42 648	
	Putnam	7 579	
.338	Henry	45 162	
.339	Rock Island	92 297	
	Rock Island (city)		*35 177*
	Moline		*30 734*
	Mercer	18 800	

Illinois

		Population in 1920	
977.34	West central counties		
.341	Henderson	9 770	
	Warren	21 488	
.342	McDonough	27 074	
.343	Hancock	28 523	
.344	Adams	62 188	
	Quincy		*35 978*
.345	Pike	26 866	
	Scott	9 489	
.346	Morgan	33 567	
	Jacksonville		*15 713*
	Cass	17 896	
.347	Brown	9 336	
	Schuyler	13 285	
.348	Fulton	48 163	
.349	Knox	46 727	
.35	Central counties		
.351	Stark	9 693	
	Marshall	14 760	
.352	Peoria	111 710	
	Peoria (city)		*76 121*
.353	Woodford	19 340	
.354	Tazewell	38 540	
.355	Mason	16 634	
	Menard	11 694	
.356	Sangamon	100 262	
	Springfield		*59 183*
.357	Logan	29 562	
.358	Macon	65 175	
	Decatur		*43 818*
	Dewitt	19 252	
.359	McLean	70 107	
	Bloomington		*28 725*
.36	East central counties		
.361	Livingston	39 070	
.362	Ford	16 466	
.363	Kankakee	44 940	
.364	Iroquois	34 841	
.365	Vermilion	86 162	
	Danville		*33 776*
.366	Champaign	56 959	
.367	Piatt	15 714	
	Moultrie	14 839	
.368	Douglas	19 604	
.369	Edgar	25 769	

Illinois

		Population in 1920	
977.37	Southeast counties		
.371	Clark	21 165	
.372	Coles	35 108	
.373	Cumberland	12 858	
.374	Jasper	16 064	
.375	Crawford	22 771	
.376	Lawrence	21 380	
.377	Richland	14 044	
.378	Wabash	14 034	
.379	1 Edwards	9 431	
	2 Wayne	22 772	
	3 Jefferson	28 480	
	4 Marion	37 497	
	5 Clay	17 684	
	6 Effingham	19 556	
	7 Fayette	26 187	
	8 Shelby	29 601	
.38	Southwest counties		
.381	Christian	38 458	
.382	Montgomery	41 403	
.383	Macoupin	57 274	
.384	Greene	22 883	
.385	Calhoun	8 245	
	Jersey	12 682	
.386	Madison	106 895	
	Alton		*24 682*
.387	Bond	16 045	
	Clinton	22 947	
.388	Washington	18 035	
.389	St Clair	136 520	
	Belleville		*24 823*
	East St Louis		*66 767*
.39	Southern counties		
.391	Monroe	12 839	
.392	Randolph	29 109	
.393	Perry	22 901	
.394	Franklin	57 293	
.395	Hamilton	15 920	
.396	White	20 081	
.397	Gallatin	12 856	
.398	Hardin	7 533	
.399	1 Pope	9 625	
	2 Saline	38 353	
	3 Williamson	61 092	
	4 Jackson	37 091	
	5 Union	20 249	
	6 Johnson	12 022	
	7 Massac	13 559	
	8 Pulaski	14 629	
	9 Alexander	23 980	
	Cairo		*15 203*

977.4 Michigan

1805 Organized as separate territory
1837 Admitted
Area 78,915 sq. mi.
Population 3,668,412 in 1920 83 counties
Sobriquets: Wolverine, Lake state Capital: Lansing

Lower peninsula

		Population in 1920	
.41	Southwest counties		
.411	Berrien	62 653	
.412	Cass	20 395	
.413	Van Buren	30 715	
.414	Allegan	37 540	
.415	Ottawa	47 660	
.416	Barry	21 383	
.417	Kalamazoo	71 225	
.418	*Kalamazoo* (city)		*48 487*
.419	St Joseph	26 818	
.42	Central south counties		
.421	Branch	23 997	
.422	Calhoun	72 918	
	Battle Creek		*36 164*
.423	Eaton	29 377	
.424	Clinton	23 110	
.425	Shiawassee	35 924	
.426	Ingham	81 554	
.427	*Lansing*		*57 327*
.428	Jackson	72 539	
	Jackson (city)		*48 374*
.429	Hillsdale	28 161	
.43	Southeast counties		
.431	Lenawee	47 767	
.432	Monroe	37 115	
.433	Wayne	1 177 645	
.434	*Detroit*		*993 678*
.435	Washtenaw	49 520	
.436	Livingston	17 522	
.437	Genesee	125 668	
.438	Oakland	90 050	
.439	Macomb	38 103	
.44	Southeast central counties		
.441	St Clair	58 009	
	Port Huron		*25 944*
.442	Lapeer	25 782	
.443	Sanilac	31 237	
.444	Huron	32 786	
.445	Tuscola	33 320	
.446	Saginaw	100 286	
	Saginaw (city)		*61 903*
.447	Bay	69 548	
	Bay City		*47 554*
	West Bay City		
	Annext to Bay City in April 1905		
.448	Midland	17 237	
.449	Gratiot	33 914	

Michigan

		Population in 1920	
977.45	Southwest central counties		
.451	Isabella	22 610	
.452	Mecosta	17 765	
.453	Montcalm	30 441	
.454	Ionia	33 087	
.455	Kent	83 041	
.456	*Grand Rapids*		*137 634*
.457	Muskegon	62 362	
	Muskegon (city)		*36 570*
.458	Newaygo	17 378	
.459	Oceana	15 601	
.46	Northwest central counties		
.461	Mason	19 831	
.462	Manistee	20 899	
	Manistee (city)		*9 694*
.463	Benzie	6 947	
	Leelanau	9 061	
.464	Grand Traverse	19 518	
.465	Kalkaska	5 577	
.466	Missaukee	9 004	
.467	Wexford	18 207	
.468	Lake	4 437	
.469	Osceola	15 221	
.47	Northeast central counties		
.471	Clare	8 250	
.472	Gladwin	8 827	
.473	Arenac	9 460	
.474	Iosco	8 199	
.475	Ogemaw	7 786	
.476	Roscommon	2 032	
.477	Crawford	4 049	
.478	Oscoda	1 783	
.479	Alcona	5 912	
.48	Northern counties		
.481	Alpena	17 869	
.482	Presque Isle	12 131	
.483	Montmorency	4 089	
.484	Otsego	6 043	
485	Antrim	11 543	
.486	Charlevoix	15 788	
.487	Cheboygan	13 991	
.488	Emmet	15 639	
489	Manitou		
	Annext to Charlevoix and Leelanau in 1896		

Michigan

977.49	**Upper peninsula**	*Population in 1920*	
.491	Chippewa	24 818	
.492	Mackinac	8 026	
	Luce	6 149	
.493	Alger	9 983	
	Schoolcraft	9 977	
.494	Delta	30 909	
.495	Menominee	23 778	
	Menominee (city		*8 907*
	Dickinson	19 456	
.496	Marquette	45 786	
	Ishpeming		*10 500*
.497	Baraga	7 662	
	Iron	22 107	
.498	Gogebic	33 225	
	Ontonagon	12 428	
.499	Houghton	71 930	
	Keweenaw	6 322	
	Isle Royale		

Annext to Keweenaw in 1897

.5 Wisconsin

1836 organized as territory
29 May 1848, admitted as 30th state **Area 56,040 sq. mi.**
Population 2,632,067 in 1920 71 counties
Sobriquet: Badger state Capital: Madison

.51	Northwest counties	*Population in 1920*	
.511	Douglas	49 771	
.512	*Superior*		*39 671*
.513	Bayfield	17 201	
.514	Burnett	10 735	
.515	Washburn	11 377	
.516	Sawyer	8 243	
.517	Polk	26 870	
.518	Barron	34 281	
.519	Rusk (formerly Gates)	16 403	

Name changed from Gates to Rusk in 1905. **Gates organized from Chippewa** in 1901

.52	Central north counties		
.521	Ashland	24 538	
	Ashland (city)		*11 334*
.522	Iron	10 261	
.523	Vilas	5 649	
.524	Price	18 517	
.525	Oneida	13 996	
.526	Taylor	18 045	
.527	Lincoln	21 084	
.528	Clark	35 120	
.529	Marathon	65 259	
	Wausau		*18 661*

Wisconsin

977.53	Northeast counties	*Population in 1920*	
.531	Forest	9 850	
.532	Florence	3 602	
.533	Marinette	34 361	
.534	*Marinette* (city)		*13 610*
.535	Langlade	21 471	
.536	Shawano	33 975	
.537	Oconto	27 104	
.538	Waupaca	34 200	
.539	Outagamie	55 113	
	Appleton		*19 561*
.54	Central west counties		
.541	St Croix	26 106	
.542	Pierce	21 663	
.543	Dunn	26 970	
.544	Chippewa	36 482	
.545	Eau Claire	35 771	
.546	*Eau Claire* (city)		*20 906*
.547	Pepin	7 481	
.548	Buffalo	15 615	
.549	Trempealeau	24 506	
.55	Central counties		
.551	Jackson	17 746	
.552	Wood	34 643	
.553	Portage	33 649	
.554	Monroe	28 666	
.555	Juneau	19 209	
.556	Adams	9 287	
.557	Waushara	16 712	
.558	Marquette	10 443	
.559	Green Lake	14 875	
.56	Central east counties		
.561	Brown	61 889	
	Green Bay (city)		*31 017*
.562	Kewaunee	16 091	
.563	Door	19 073	
.564	Winnebago	63 897	
.565	*Oshkosh*		*33 162*
.566	Calumet	17 228	
.567	Manitowoc	51 644	
	Manitowoc (city)		*17 563*
.568	Fond du Lac	56 119	
	Fond du Lac (city)		*23 427*
.569	Sheboygan	59 913	
	Sheboygan (city)		*30 955*

Wisconsin

977.57	Southwest counties	*Population in 1920*	
.571	La Crosse	44 355	
.572	*La Crosse* (city)		*30 421*
.573	Vernon	29 252	
.574	Crawford	16 772	
.575	Richland	19 823	
.576	Sauk	32 548	
.577	Grant	39 044	
.578	Iowa	21 504	
.579	Lafayette	20 002	
.58	Central south counties		
.581	Columbia	30 468	
.582	Dodge	49 742	
.583	Dane	89 432	
.584	*Madison*		*38 378*
.585	Jefferson	35 022	
.586	Green	21 568	
.587	Rock	66 150	
	Janesville		*18 293*
.588	*Beloit*		*21 284*
.589	Walworth	29 327	
.59	Southeast counties		
.591	Washington	25 713	
.592	Ozaukee	16 335	
.593	Waukesha	42 612	
.594	Milwaukee	539 449	
.595	*Milwaukee* (city)		*457 147*
.596	Racine	78 961	
.597	*Racine* (city)		*58 593*
.598	Kenosha	51 284	
.599	*Kenosha* (city)		*40 472*

.6 Minnesota

3 Mar. 1849, organized as territory from Northwest territory and Louisiana purchase
11 May 1858, east part admitted as 32d state; west part merged in Dakota territory 1861
Population 2,387,125 in 1920 Area 80,858 sq. mi. 86 counties
Sobriquet: Gofer state Capital: St Paul

.7 Iowa

12 June 1838, organized as a territory
28 Dec. 1846, admitted as 29th state Area 56,025 sq. mi.
Population 2,404,021 in 1920 99 counties
Sobriquet: Hawkeye state Capital: Des Moines

Iowa

977.71	Northwest counties	*Population in 1920*	
.711	Lyon	15 431	
6	Osceola	10 223	
.712	Dickinson	10 241	
5	Emmet	12 627	
.713	Sioux	26 458	
.714	O'Brien	19 051	
.715	Clay	15 660	
5	Palo Alto	15 486	
.716	Plymouth	23 584	
.717	Cherokee	17 760	
.718	Buena Vista	13 556	
.719	Pocahontas	15 602	
.72	Central north counties		
.721	Kossuth	25 082	
.722	Winnebago	13 489	
.723	Worth	11 630	
4	Mitchell	13 921	
.724	Hancock	14 723	
.725	Cerro Gordo	34 675	
.726	Floyd	18 850	
.727	Humboldt	12 951	
4	Wright	20 348	
.728	Franklin	15 807	
.729	Butler	17 845	
.73	Northeast counties		
.731	Howard	13 705	
5	Chickasaw	15 431	
.732	Winneshiek	22 091	
.733	Allamakee	17 285	
.734	Bremer	16 728	
.735	Fayette	29 251	
.736	Clayton	25 032	
.737	Blackhawk	56 570	
1	*Waterloo*		*36 230*
.738	Buchanan	19 890	
5	Delaware	18 183	
.739	Dubuque	58 262	
1	*Dubuque* (city)		*39 141*
.74	Central west counties		
.741	Woodbury	92 171	
1	*Sioux City*		*71 227*
.742	Ida	11 689	
4	Sac	17 500	
.743	Calhoun	17 783	
.744	Monona	17 125	
.745	Crawford	20 614	
.746	Carroll	21 549	
6	Greene	16 467	
.747	Harrison	24 488	
.748	Shelby	16 065	
6	Audubon	12 520	
.749	Guthrie	17 596	

Iowa

977.75	Central counties	*Population in 1920*	
.751	Webster	37 611	
1	*Fort Dodge*		*19 347*
.752	Hamilton	19 531	
.753	Hardin	23 337	
7	Grundy	14 420	
.754	Boone	29 892	
6	Story	26 185	
.755	Marshall	32 630	
1	*Marshalltown*		*15 731*
.756	Tama	21 861	
.757	Dallas	25 120	
.758	Polk	154 029	
1	*Des Moines*		*126 468*
.759	Jasper	27 855	
5	Poweshiek	19 910	
.76	Central east counties		
.761	Benton	24 080	
.762	Linn	74 004	
1	*Cedar Rapids*		*45 566*
.763	Jones	18 607	
.764	Jackson	19 931	
.765	Iowa	18 600	
5	Johnson	26 462	
.766	Cedar	17 560	
.767	Clinton	43 371	
1	*Clinton* (city)		*24 151*
.768	Muscatine	29 042	
1	*Muscatine* (city)		*16 068*
.769	Scott	73 952	
1	*Davenport*		*56 727*
.77	Southwest counties		
.771	Pottawattamie	61 550	
1	*Council Bluffs*		*36 162*
.772	Cass	19 421	
.773	Adair	14 259	
.774	Mills	15 422	
.775	Montgomery	17 048	
.776	Adams	10 521	
.777	Fremont	15 447	
.778	Page	24 137	
.779	Taylor	15 514	
.78	Central south counties		
.781	Madison	15 020	
.782	Warren	18 047	
.783	Marion	24 957	
.784	Mahaska	26 270	
.785	Union	17 268	
6	Clarke	10 506	
.786	Lucas	15 686	
5	Monroe	23 467	
787	Ringgold	12 919	
5	Decatur	16 566	
.788	Wayne	15 378	
.789	Appanoose	30 535	

Iowa

977.79	Southeast counties	*Population in 1920*	
.791	Keokuk	20 983	
.792	Washington	20 421	
6	Louisa	12 179	
.793	Wapello	37 937	
1	*Ottumwa*		*23 003*
.794	Jefferson	16 440	
.795	Henry	18 298	
.796	Des Moines	35 520	
1	*Burlington*		*24 057*
.797	Davis	12 574	
.798	Van Buren	14 060	
.799	Lee	39 676	
1	*Keokuk* (city)		*14 423*

.8 Missouri

7 Dec. 1812, organized as a territory 10 Aug. 1821, admitted as 24th state
Area 69,415 sq. mi. Population 3,404,055 in 1920 114 counties and St Louis
Sobriquets: Bullion state, Iron state Capital: Jefferson

.81	Northwest counties	*Population in 1920*	
.811	Atchison	13 008	
5	Holt	14 084	
.812	Nodaway	27 744	
6	Andrew	14 075	
.813	Buchanan	93 684	
1	*St Joseph*		*77 939*
5	Platte	13 996	
.814	Worth	7 642	
5	Gentry	15 634	
.815	Dekalb	11 694	
5	Clinton	14 461	
.816	Clay	20 455	
.817	Harrison	19 719	
.818	Daviess	16 641	
5	Caldwell	13 849	
.819	Ray	20 508	
.82	Central north counties		
.821	Mercer	11 281	
5	Grundy	17 554	
.822	Livingston	18 857	
5	Carroll	20 480	
.823	Putnam	13 115	
5	Sullivan	17 781	
.824	Linn	24 778	
.825	Chariton	21 769	
.826	Schuyler	8 383	
4	Adair	21 404	
.827	Macon	27 518	
.828	Randolph	27 633	
1	*Moberly*		*12 808*
5	Howard	13 997	
.829	Boone	29 672	

Missouri

977.83	Northeast counties	*Population in 1920*	
.831	Scotland	10 700	
5	Knox	10 783	
.832	Shelby	13 617	
5	Monroe	16 414	
.833	Audrain	20 589	
5	Callaway	23 007	
.834	Clark	11 874	
5	Lewis	13 465	
.835	Marion	30 226	
1	*Hannibal*		*19 306*
5	Ralls	10 412	
.836	Pike	20 345	
.837	Lincoln	15 956	
.838	Montgomery	15 233	
6	Warren	8 490	
.839	St Charles	22 828	
.84	Central west counties		
.841	Jackson	367 846	
1	*Kansas City*		*324 410*
.842	Cass	21 536	
.843	Bates	23 933	
.844	Vernon	26 069	
.845	Lafayette	30 006	
5	Johnson	24 899	
.846	Henry	25 116	
6	St Clair	15 341	
.847	Saline	28 826	
.848	Pettis	35 813	
1	*Sedalia*		*21 144*
.849	Benton	12 989	
6	Hickory	7 033	
.85	Central counties		
.851	Cooper	19 308	
.852	Moniteau	13 532	
.853	Morgan	12 015	
.854	Camden	10 474	
.855	Cole	24 680	
1	*Jefferson City*		*14 490*
.856	Miller	15 567	
.857	Pulaski	10 490	
.858	Osage	13 559	
.859	Maries	9 500	
4	Phelps	14 941	
.86	Central east counties		
.861	Gasconade	12 381	
.862	Crawford	12 355	
.863	Franklin	28 427	
.864	Washington	13 803	
.865	St Louis	100 737	
.866	*St Louis* (city)	772 897	
.867	Jefferson	26 555	
.868	St François	31 403	
.869	Ste Genevieve	9 809	
4	Perry	14 434	

Missouri

977.87	Southwest counties	*Population in 1920*	
.871	Barton	16 879	
.872	Jasper	75 941	
1	*Joplin*		*29 902*
2	*Webb City*		*7 807*
.873	Newton	24 886	
6	McDonald	14 690	
.874	Cedar	13 933	
5	Dade	14 173	
.875	Lawrence	24 211	
.876	Barry	23 473	
.877	Polk	20 351	
.878	Greene	68 698	
1	*Springfield*		*39 631*
.879	Christian	15 252	
4	Stone	11 941	
7	Taney	8 178	
.88	Central south counties		
.881	Dallas	12 033	
5	Laclede	16 857	
.882	Webster	16 609	
5	Wright	17 733	
.883	Douglas	15 436	
5	Ozark	11 125	
.884	Texas	20 548	
.885	Howell	21 102	
.886	Dent	12 318	
.887	Shannon	11 865	
5	Oregon	12 889	
.888	Iron	9 458	
5	Reynolds	10 106	
.889	Carter	7 482	
4	Ripley	12 061	
.89	Southeast counties		
.891	Madison	10 721	
.892	Wayne	13 012	
.893	Butler	24 106	
.894	Bollinger	13 909	
.895	Stoddard	29 755	
.896	Cape Girardeau	29 839	
.897	Scott	23 409	
.898	Mississippi	12 860	
5	New Madrid	25 180	
.899	Dunklin	32 773	
6	Pemiscot	26 634	

.9

978 Western or Mountain

Including general works on 'the West'

.1 Kansas

1541 explored by Spanish
30 May 1854 organized as separate territory, after successiv inclusion in Louisiana and Missouri territories 29 Jan. 1861 admitted as 34th state
Area 81,774 sq. mi. Population 1,769,257 in 1920 105 counties
Sobriquets: Garden of the west, Sunflower state Capital: Topeka

		Population in 1920	
.11	Northwest counties		
.111	Cheyenne	5 587	
5	Sherman	5 592	
.112	Wallace	2 424	
5	Rawlins	6 799	
.113	Thomas	5 517	
5	Logan	3 223	
.114	Decatur	8 121	
5	Sheridan	5 484	
.115	Gove	4 748	
5	Norton	11 423	
.116	Graham	7 624	
5	Trego	5 880	
.117	Phillips	12 505	
.118	Rooks	9 966	
.119	Ellis	14 138	
1	*Hays*		*3 165*
.12	Central north counties		
.121	Smith	14 985	
5	Osborne	12 441	
.122	Jewell	16 240	
.123	Mitchell	13 886	
.124	Republic	15 855	
.125	Cloud	17 714	
.126	Ottawa	10 714	
.127	Washington	17 984	
5	Clay	14 365	
.128	Riley	20 650	
1	*Manhattan*		*7 989*
.129	Geary	13 452	
1	*Fort Riley*		
.13	Northeast counties		
.131	Marshall	22 730	
.132	Pottawatomie	16 154	
.133	Nemaha	18 487	
5	Jackson	15 495	
.134	Brown	20 949	
.135	Doniphan	13 438	
.136	Atchison	23 411	
1	*Atchison*		*12 630*
.137	Jefferson	14 750	
.138	Leavenworth	38 402	
1	*Leavenworth* (city)		*16 912*
.139	Wyandotte	122 218	
1	*Kansas City*		*101 177*

Kansas

		Population in 1920	
978.14	Central west counties		
.141	Greeley	1 028	
5	Hamilton	2 586	
.142	Wichita	1 856	
5	Kearney	2 617	
.143	Scott	3 121	
.144	Finney	7 674	
.145	Lane	2 848	
.146	Ness	7 490	
.147	Hodgeman	3 734	
.148	Rush	8 360	
.149	Pawnee	9 323	
1	*Larned*		*3 139*
.15	Central counties		
.151	Russell	10 748	
.152	Barton	18 422	
.153	Lincoln	9 894	
5	Ellsworth	10 379	
.154	Rice	14 832	
5	Saline	25 103	
6	*Salina*		*15 085*
.155	McPherson	21 845	
.156	Dickinson	25 777	
.157	Marion	22 923	
.158	Morris	12 005	
1	*Council Grove*		*2 857*
.159	Chase	7 144	
.16	Central east counties		
.161	Wabaunsee	11 424	
.162	Lyon	26 154	
1	*Emporia*		*11 273*
.163	Shawnee	69 159	
1	*Topeka*		*50 022*
.164	Osage	18 621	
5	Coffey	14 254	
.165	Douglas	23 998	
1	*Lawrence*		*12 456*
.166	Franklin	21 946	
.167	Anderson	12 986	
5	Johnson	18 314	
.168	Miami	19 809	
1	*Osawatomie*		*4 772*
.169	Linn	13 815	

Kansas

978.17	Southwest counties	*Population in 1920*	
.171	Stanton	908	
5	Morton	3 177	
.172	Grant	1 087	
5	Stevens	3 943	
.173	Haskell	1 455	
5	Seward	6 220	
.174	Gray	4 711	
.175	Meade	5 542	
.176	Ford	14 273	
1	*Dodge City*		*5 061*
.177	Clark	4 989	
.178	Edwards	7 057	
5	Kiowa	6 164	
.179	Comanche	5 302	
.18	Central south counties		
.181	Stafford	11 559	
5	Pratt	12 909	
.182	Barber	9 739	
1	*Medicine Lodge*		*1 305*
.183	Reno	44 423	
1	*Hutchinson*		*23 298*
.184	Kingman	12 119	
5	Harper	13 656	
.185	Harvey	20 744	
.186	Sedgwick	92 234	
1	*Wichita*		*72 217*
.187	Sumner	29 213	
.188	Butler	43 842	
1	*Eldorado*		*10 995*
.189	Cowley	35 155	
1	*Arkansas City*		*11 253*
.19	Southeast counties		
.191	Greenwood	14 715	
5	Elk	9 034	
8	Chautauqua	11 598	
.192	Woodson	8 984	
5	Wilson	21 157	
.193	Montgomery	49 645	
1	*Independence*		*11 920*
2	*Coffeyville*		*13 452*
.194	Allen	23 509	
.195	Neosho	24 000	
1	*Chanute*		*10 286*
.196	Labette	34 047	
1	*Parsons*		*16 028*
.197	Bourbon	23 198	
1	*Fort Scott*		*10 693*
.198	Crawford	61 800	
1	*Pittsburg*		*18 052*
.199	Cherokee	33 609	

978.2 Nebraska
30 May 1854 territory organized out of Missouri territory
1 Mar. 1867 admitted as 37th state
Area 76,808 sq. mi. Population 1,296,372 in 1920 93 counties
Sobriquet: Blackwater state Capital: Lincoln

.3 South Dakota Including works on Dakota as a whole
2 Nov. 1889 admitted as 40th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 76,868 sq. mi. Population 636,547 in 1920 68 counties
Sobriquet: Coyote state Capital: Pierre

.4 North Dakota
2 Nov. 1889 admitted as 39th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 70,183 sq. mi. Population 646,872 in 1920 53 counties
Sobriquet: Flickertail state Capital: Bismarck

.5

.6 Montana
26 May 1864 territory organized. Name means Mountain land
8 Nov. 1889 admitted as 41st state
Area 146,201 sq. mi. Population 548,889 in 1920 51 counties
Sobriquet: Treasure state Capital: Helena

.7 Wyoming
25 July 1868 Wyoming territory organized
10 July 1890 admitted as 44th state
Area 97,594 sq. mi. Population 194,402 in 1920 21 counties and Yellowstone national park
Sobriquet: Stub Toe state Capital: Cheyenne

.8 Colorado
28 Feb. 1861 Colorado territory organized
1 Aug. 1876 admitted as 38th state
Area 103,658 sq. mi. Population 939,629 in 1920 63 counties
Sobriquet: Centennial state Capital: Denver

.9 New Mexico
2 Feb. 1848 ceded by Mexico
9 Sep. 1850 territory organized; enlarged 1853 by Gadsden purchase
6 Jan. 1912 admitted as 47th state Area 122,503 sq. mi.
Population 360,350 in 1920 29 counties Capital: Santa Fé

979 Pacific

.1 Arizona
2 Feb. 1848 ceded by Mexico, and enlarged by Gadsden purchase 1853
24 Feb. 1863 territory organized 14 Feb. 1912 admitted as 48th state
Area 113,810 sq. mi. Population 334,162 in 1920 14 counties
Sobriquets: Valentine, Hassayampa state Capital: Phoenix

.2 Utah
2 Feb. 1848 ceded by Mexico 9 Sep. 1850 territory organized
4 Jan. 1896 admitted as 45th state
Area 82,184 sq. mi. Population 449,396 in 1920 29 counties
Sobriquet: Salt Lake state Capital: Salt Lake City

.3 Nevada
2 Mar. 1861 territory organized 31 Oct. 1864 admitted as 36th state
Area 109,821 sq. mi. Population 77,407 in 1920 17 counties
Sobriquet: Silver state Capital: Carson

979.4 California

Admitted 9 Sep. 1850, as 31st state Area 155,652 sq. mi.
Population 3,426,861 in 1920 58 counties
Sobriquet: Golden state Capital: Sacramento

Northern or Superior California

Use 979.41 as a general number, including .41–.43

		Population in 1920	
.41	Coast range counties, north		
.411	Del Norte	2 759	
.412	Humboldt	37 413	
.414	Trinity	2 551	
.415	Mendocino	24 116	
.417	Lake	5 402	
.418	Sonoma	52 090	
.419	Napa	20 678	
.42	Northeast counties		
.421	Siskiyou	18 545	
.423	Modoc	5 425	
.424	Shasta	13 361	
.426	Lassen	8 507	
.427	Tehama	12 882	
.429	Plumas	5 681	
.43	North central counties		
.431	Glenn	11 853	
.432	Butte	30 030	
.433	Colusa	9 290	
.434	Sutter	10 115	
.435	Yuba	10 375	
.436	Sierra	1 783	
.437	Nevada	10 850	
.438	Placer	18 584	

Central California

Use 979.44 as a general number, including .44–.48

.44	East central counties		
.441	El Dorado	6 426	
.442	Amador	7 793	
.443	Alpine	243	
.444	Calaveras	6 183	
.445	Tuolumne	7 768	
.446	Mariposa	2 775	
.447	*Yosemite*		
.448	Mono	960	
.45	Central counties		
.451	Yolo	17 105	
.452	Solano	40 602	
.453	Sacramento	91 029	
.454	*Sacramento* (city)		*65 908*
.455	San Joaquin	79 905	
.456	*Stockton*		*40 296*
.457	Stanislaus	43 557	
.458	Merced	24 579	

California

979.46	West central counties San Francisco group		
		Population in 1920	
.461	San Francisco co. and city	506 676	
.462	Marin	27 342	
.463	Contra Costa	53 889	
.465	Alameda	344 177	
	Alameda (city)		*28 806*
.466	*Oakland*		*216 261*
.467	*Berkeley*		*56 036*
.469	San Mateo	36 781	
.47	Coast range counties, south		
.471	Santa Cruz	26 269	
.473	Santa Clara	100 676	
.474	*San José*		*39 642*
.475	San Benito	8 995	
.476	Monterey	27 980	
.478	San Luis Obispo	21 893	
.48	South central counties		
.481	Madera	12 203	
.482	Fresno	128 779	
.483	*Fresno* (city)		*45 086*
.485	Kings	22 031	
.486	Tulare	59 031	
.487	Inyo	7 031	
.488	Kern	54 843	

Southern California

.49	Southern counties		
.491	Santa Barbara	41 097	
	Ilands: San Miguel, Santa Rosa, Santa Cruz, Santa Barbara		
.492	Ventura	28 724	
	Ilands: Anacapa, San Nicholas		
.493	Los Angeles	936 455	
	Ilands: Santa Catalina, San Clemente		
.494	*Los Angeles* (city)		*576 673*
.495	San Bernardino	73 401	
.496	Orange	61 375	
.497	Riverside	50 297	
.498	San Diego	112 248	
	San Diego (city)		*74 683*
.499	Imperial	43 453	

.8 **Alaska**

30 Mar. 1867 ceded by Russia 24 Aug. 1912 organized as territory
Area 590,884 sq. mi. Population 55,036 in 1920 Capital: Juneau

988 Guiana

989 Paraguay Uruguay

990 Oceania Polar regions

991 Malaysia

.1 Borneo .2 Celebes .3 Moluccas or Spice ilands .4 Philippine ilands

992 Sunda

.1 Sumatra .2 Java

993 Australasia

.1 New Zealand .2 New Caledonia .3 Loyalty ilands .4 New Hebrides .5 Solomon ilands .6 New Britain, New Ireland .7 Admiralty ilands

994 Australia

.1 Western Australia .2 South Australia .3 Queensland .4 New South Wales .5 Victoria .6 Tasmania

995 New Guinea

996 Polynesia

.1 Fiji, Friendly and Navigator ilands .2 Society, Austral and Cook's ilands .3 Marquesas ilands and Low Archipelago .4 Minor Polynesian ilands .5 **Micronesia** .6 Caroline and Pelew ilands .7 Ladrone ilands .8 Marshall and Gilbert ilands .9 Hawaii

997 Isolated ilands

998 Arctic regions

General number for Polar regions

999 Antarctic regions

Volume 2

To lern to clasify is in itself an education
Alex. Bain

Decimal Clasification

and

Relativ Index

for libraries and personal use

in arranjing for immediate reference
books, pamflets, clippings, pictures, manuscript notes
and other material

by

Melvil Dewey A M LLD

Edition 12
revized and enlarjd under direction of
Dorcas Fellows, Editor

Semicentennial edition

Volume 2: Relativ Subject Index

Forest Pres
Lake Placid Club
Essex co. N Y
1927

Decimal Clasification and Relativ Index

Copyryt by

Melvil Dewey 1876; 1885; 1911; 1913; 1915; 1919
Library Bureau 1888; 1891; 1894; 1898
Lake Placid Club Education Foundation 1922; 1927

Modifying D C numbers

Confuzion and annoyance to thousands of uzers cauzd by printing unauthorized variations force the publishers to insist strictly on ful copyryt protection. Every library and individual uzer has, however, entire freedom to make such variations as he thinks he needs, under the simpl restrictions found necesary to protect the ryts of others. See v. 1, p. 35²-38¹, Letter or simbol notations for chanjes or aditions.

Speling

Simpler spelings ar strongly recommended for jeneral adoption by both American and English filolojic associations, including nearly all prominent skolars in English now living. We regret prejudis which certain uzers wil feel against these chanjes, but after careful study of all objections urjd, we find the weight of skolarship, reazon and economy wholy in their favor, and feel compeld to bear a share of the prejudis which sum must endure before the great benefits of a rational orthografy can be secured.

We uze simpler forms recommended for jeneral adoption by the Simplified Spelling Board. Fuller information free from: Education Foundation, Lake Placid Club, Essex co. N Y

Besides these we also uze sum other simpler forms. Most S S B rules and our aditions merely drop useless or misleading silent letters, with needed substitutes in a few cases; e. g. *j* for *g*, *dg* or *dge* when pronounst *j*; *y* for its sound in *by*, *my*, *reply* etc; *k* for *ck* or *ch*, medial or final, if pronounst *k*; *u* for *o* or *ou* pronounst as *u* in *us*; *f* for *ph* and *gh* in *phlegm* and *rough*, where we drop *g* and *o* and substitute *f*, speling *flem* and *ruf*.

Tables and Index alredy set in old speling wil not be chanjed til re-set.

See, at end of Introduction (v. 1, p. 49-63), summary of compeling reazons for making these chanjes, and code of brief rules. Read them before criticizing our shorter and much better speling.

EXPLANATION

This Clasification divides knowlej into 9 main clases numberd 1 to 9. Cyclopedias, periodicals etc. so jeneral as to belong to *no* one of these clases ar markt 0 (naught) and form a 10th clas. Each clas is similarly separated into 9 divisions, jeneral works belonging to *no* division having 0 in place of division number. Divisions ar similarly divided into 9 sections. This process is repeated as often as necesary. Thus 512 means clas 5 (Pure syence), division 1 (Mathematics), section 2 (Aljebra), and every aljebra is numberd 512.

Books on shelvs and cards in a clast catalog ar arranjed in simpl numeric order, all clas numbers being regarded as decimals. The Clasification Tables sho order of subjects. Thus 512 Aljebra follows 511 Arithmetic and precedes 513 Jeometry. Since each subject has a definit number, all books on any subject stand together.

Summaries 1st summary shows the 10 clases. 2d shows the 9 divisions of each clas, and is useful as a 1-paje birdseye view of whole skeme. Then follo 10 pajes, 1 for each clas, giving the 9 sections of each of its 9 divisions, and showing scope of the clas on a singl paje.

Tables These 3 summaries ar followd by ful Clasification Tables, which present in numeric order all clases, divisions, sections and subsections. Sinonimus terms, exampls, brief notes, dates and cachwords ar often aded to simpl heds to giv fuller and clearer idea of scope of each number. Therefore all references to numbers shud be lookt up in *ful Tables*, never in Summaries, which ar in effect a contents table of the ful Clasification.

Index After the Tables an alfabetic Index of all heds givn in Tables refers by clas number of each to its exact place in Tables. This Index includes also sinonims and many other entries likely to help a reader find his subject eazily. Even a uzer who knows just where to turn to his subject in Tables, may, by consulting the Index, be put on trak of valuabl allyd matter which he wud otherwize overlook.

Ful explanations Ilustrations and sugjestions for numerus applications of this sistem, and ful explanations of its nemonic and other important features ar givn in v. 1, Introduction.

1927

Decimal Clasification and Relativ Index

Net prices; postpaid

Edition 12 This is the ful clasification of 1243 pajes: i. e. introduction 67, summaries 12, jeneral works 43, filosofy 11, relijion 27, sociolojy 60, filolojy 11, pure syence 57, useful arts 250, fine arts 30, literature 44, history 137, followd by alfabetic index of 467 pajes, 43,000 heds

Price: 2v. in 1, ¼ lether, $11; 2v. (v. 1, Tables; v. 2, Relativ Subject Index) limp fabrikoid, $12 (sold separately $6 each; unbound $5 each). Denison quik reference tabs for either tables or index (to order) 50 cents extra; for both tables and index $1

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Short or Abridged D C, ed. 3, 1921 For small and slowly growing libraries. 184 pajes, containing explanation of sistem, sugjestions to clasifyers, annotated tables and index of 13,000 heds. The short numbers can be chanjed to ful ones without other alteration than ading extra figures from the ful tables. Cloth $2

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D C Description Ful explanation of plan and uses, with chart of 10 Clases and 100 Divisions, and 17 sampl pajes from varius tipical subjects. Singl copies free. $5 a 100

Extracts 651 Offis economy, 658 Business manajment, 331 Labor and capital; 1924. 56 pajes. Paper $1; 5 or more copies for clerical or clas use only, ½ price

Revisions Typ is kept standing and editors ar constantly at work on sugjested aditions and improvements sent direct or thru the international D C committees from many cuntries where the sistem is uzed, while the cordial cooperation of Library of Congress, where D C editing wil henceforth be done, makes availabl the best posibl resources

Revized editions of Ful, Short and Outline wil be issued as fast as needed

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INDEX ABBREVIATIONS

Cutter forename abbreviations Most common forenames of men are denoted by initial and colon; of women by initial and double period.

A.. Anna	G: George	L.. Louisa	S: Samuel
A: Augustus	G.. Grace	M: Mark	S.. Sarah
B.. Beatrice	H.. Helen	M.. Mary	T.. Theresa
B: Benjamin	H: Henry	N.. Nancy	T: Thomas
C: Charles	I: Isaac	N: Nicholas	U: Ulrich
C.. Charlotte	I.. Isabella	O.. Olivia	U.. Ursula
D: David	J.. Jane	O: Otto	V: Victor
D.. Delia	J: John	P.. Pauline	V.. Victoria
E: Edward	K: Karl	P: Peter	W.. Wilhelmina
E.. Elizabeth	K.. Kate	R.. Rebecca	W: William
F.. Fanny	L: Lewis	R: Richard	Z.. Zenobia
F: Frederick			

Other abbreviations exclusiv of common geografic abbreviations and others selfexplanatory; e. g. those made by omitting final -ment, -ogy, -rafy, -tion, -ture, obscure syllables, etc.

adj.	adjutant	elec.	electric -ity	nat.	natural, nature
anal.	analysis	eng.	engineering	nonchr.	nonchristian
anat.	anatomy	eth.	ethical, ethics	ord.	order, orders
anc.	ancient	exped.	expedition	ordn.	ordnance
antiq.	antiquities	fest.	festival	org.	organ -ic
arch.	archeology	fic. *or*	fiction	orig.	origin -al
	architecture	fict.		phil.	philosofer -y
ass'n	association	gard.	gardening	philol.	philology
astr.	astronomy	gen.	general	phot.	photografic -y
bibliog.	bibliografic	geod.	geodesy	phys.	physical
biog.	biografy	geog.	geografic		physiologic -y
bldg	bilding	geol.	geology	poet.	poetry
bus.	business	geom.	geometry	pol. *or*	political *or*
ch.	church	gov. *or*	government	polit.	politics
chem.	chemic	gov't		prac.	practical
	chemistry	histol.	histology	pres.	presidency
chr.	christian	hist.	historic -y		president
civ.	civil	hum.	humor	prob.	probabilities
co.	county	hyg.	hygiene	prot.	protection
cont.	contagious	instr.	instrument	psych.	psychologic -y
cost.	costume	lang.	language	pub.	public
crim.	criminal	lib.	library -ian	reg.	region
Dan.	Danish	lig.	ligament	relig.	religion, -ous
dec.	decoration	lit.	literature	rit.	ritual
descr.	description	loc.	local -ity	sat.	satire
	descriptiv	mach.	machine -ry	sci.	science, -tific
diff.	different	manuf.	manufactures	serm.	sermons
dis.	diseases	mech.	mechanic	soc.	social, society
discov.	discovery	ment.	mental	stat.	statutes
doc.	doctrin -al	meth.	methods	subj.	subject
dom.	domestic	mfg	manufacturing	tech.	technology
dram.	drama	mil.	military	theol.	theologic -y
dwel.	dwelling	min.	mineral	theor.	theoretic
eccles.	ecclesiastic		mining	therap.	therapeutics
	ecclesiology	misc.	miscellany	wks	works
econ.	economic -y	mon.	monastic		

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each **index table.**

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A L A publishing board 020.627
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INDEX TABLES

Table 1—Geografic divisions

The following subjects may all be divided geograficly by adding the geografic numbers: i. e. 4 Europe; 5 Asia; 6 Africa; 7 North America; 8 South America; 9 Oceania. These can be further subdivided as minutely as wisht, like the history, 930–999, which see for full table; e. g. 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geografic numbers ar formd by omitting initial 9 from the historical numbers given in tables 930–999, and these figures ar simply affixt to the number given in the table below; e. g. Atlases ar numberd in the table below 912; in the historical tables France is numberd 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints ar 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges ar 378; N. Y. state, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. state.

Many other topics which may be divided geograficly ar omitted from this table but ar indicated by superior [1] in Relativ index.

373.	Academies, private
379.	" public
354.	Administration (except U. S.)
923.5	" biografy
923.5	Admirals' lives
630.9	Agriculture, history of
283.	American P.E. church
922.3	" " " biografy
911.	Ancient geografy
283.	Anglican church
922.3	" " biografy
591.9	Animals, geografic distribution
328.	Annals, legislativ
913.	Antiquities, archeology
922.3	Archbishops' lives, Anglican
922.2	" " Roman catholic
720.9	Architecture, history of
923.5	Army biografy
709.	Art, history of
362.9	Asylums
027.2	Atheneum libraries
912.	Atlases
013.9	Authors, foren
923.3	Bankers' lives
286.1-4	Baptist sects
	see Classification tables
922.6	Baptist lives
013.9	Bibliografy of foren authors
016.9	" of history
015.	" special countries
022.33	Bildings, library
920.0	Biografy of countries, collectiv; also religious biografy 922.2 to 922.8, and biografy of sociology 923.1 to 923.8
922.3	Bishops' lives, Anglican and P. E.
922.2	" " Roman catholic
655.4	Bookselling, history of
581.9	Botany, geografic
284.2	Calvinist church
922 4	" lives
923.3	Capitalists' lives
922.2	Cardinals' "
282.	Catholic church
922.2	" " biografy
284.8	" Old, church
361.9	Charitable associations
136.79	Childhood
283.	Church, Episcopal
922.3	" " biografy
27	" history
027.3	Circulating libraries
027.4	City libraries, public
923.5	Civil servis biografy
027.2	Club libraries
367.9	Clubs, social
332.49	Coinage, history of
027.7	College libraries
378.	Colleges
325.	Colonies
923.8	Commerce, biografy of
285.8	Congregational church
922.5	" " biografy
342.	Constitutional law
922.4	Continental Protestants' lives
641.59	Cookery
655.6	Copyright
940.3	Countries in World war
343.	Criminal law
923.4	Criminals' lives
614.12	Deths and deth-rates
91	Description, geografic
91	Directories
591.9	Distribution of animals, geog.
549.9	" " minerals "
581.9	" " plants "
572.9	" " races "
284.1	Dutch reformd church (except America)
285.7	Dutch reformd church (in America)
922.4	Dutch reformd church biografy
27	Ecclesiastical history

330.9 Economics, history
378. Education, college
372.9 " elementary
370.9 " history of
373. " intermediate (private)
376.9 " of women
373. " private academies
379. " public school
923.7 Educators' lives
372.9 Elementary education
325.2 Emigrants
923.1 Emperors' lives
027.4 Endowd libraries
373. " schools
628.09 Engineering, sanitary
283. Episcopal church
922.3 " " biografy
287.6 " Methodist, church
922.7 " " " biog.
572.9 Ethnology
027.1 Family libraries
376.9 Female education
336. Finance
923.3 Financiers' lives
349. Foren law
327. " relations
354. " states, administration
560.9 Fossils, geografic distribution
027.9 Free news rooms
027.4 " public libraries
289.6 Friends or quakers
922.8 " " " biografy
027.0 General libraries, hist. repts. etc.
581.9 Geografic botany
591.9 " dist. of animals
560.9 " " " fossils
549.9 " " " minerals
572.9 " " " races
91 Geografy, description
911. " historical
912. " maps
355.47 " military
55 Geology
724.3 Gothic revival, architecture
724.4 " Victorian "
354. Government admin. (except U.S.)
027.5 " libraries
352.0 " local
923.2 Governors' lives
724.2 Grecian revival, architecture
614.09 Helth, public
911. Historical geografy
016.9 History, bibliografy of
362.9 Hospitals
940.476 " World war
284.5 Huguenots
922.4 Huguenots biografy
613.09 Hygiene
325. Immigration
338.9 Industrial legislation
607. Institutes of technology
370.72 " teachers
368.9 Insurance
373. Intermediate education
923.4 Judges' lives
372.209 Kindergarten history
923.1 Kings' lives
331.819 Laboring classes
333.09 Landholding
323.1 Languajes, internal relations
923.4 Law biografy
342. " constitutional
343. " criminal
349. " foren
323.6 Laws, citizenship
379.14 " school
338.9 Legislation, industrial
021.89 " library
328. Legislativ bodies and annals
923.2 Legislators' lives
027.0 Libraries: general histories, reports, etc.
352.0 Local government
284.1 Lutheran church
922.4 " " biografy
371.4269 Manual training
912. Maps
940.475 Medical dpt, World war
370.71 Meetings, teachers
940.465 Memorials of World war
923.8 Merchants' lives
287.6 Methodist episcopal
922.7 " biografy
553.70 Mineral waters
549.9 Minerals, geografic distribution
332.49 Mints, history
780.9 Music, history of
015. National bibliografy
920.0 " biografy
323.1 Nationalities
923.5 Naval biografy
724.6 Néo-Grec architecture
027.9 News rooms, free
923.2 Nobles' lives
560.9 Paleontology
027.8 Parish libraries
328. Parliamentary bodies
329.9 Parties, political (except U. S.)
923.6 Philanthropists' lives
912. Plans of cities, etc.
581.9 Plants, geografic distribution
363.9 Political associations

923.3 Political economy, biografy
330.9 " " history
329.9 " parties (except U. S.)
923.2 " science, biografy
320.9 " " history of
923.2 Politicians' lives
312. Population, statistics of
373. Preparatory schools
285.1 Presbyterian church in America
285.2 " " " Gt Britain
922.5 " " biografy
923.1 Presidents' lives
655.1 Printing, history of
365.9 Prisons
027.1 Private libraries
373. " schools
027.2 Proprietary libraries
283. Protestant episcopal church
922.3 " " " biog.
922.4 Protestants, continental, lives
614.09 Public helth
027.4 Public libraries
379. " school system
015. Publishers' lists
655.4 Publishing, history of
289.6 Quakers
922.86 " lives
724.5 Queen Anne architecture
923.1 Queens' lives
323.1 Races, internal relations
572.9 " of men
923.8 Railroad officials' lives
027.4 Rate supported libraries
027.9 Reading rooms, free
364.9 Reformatory institutions
284.1 Reformd church
285.7 " (Dutch) church in Amer.
922.4 " " " biografy
327. Relations, foren
27 Religious history
724.1 Renaissance architecture
282. Roman catholic church
922.2 " " " biografy
724.8 Romanesque revival, architecture
923.1 Rulers, chief, lives
628.09 Sanitary engineering, history, etc.
284.7 Scandinavian church
922.4 " " biografy
027.8 School libraries
923.7 " offisers' biografy
370.73 Schools, normal
374.4 " correspondence
373. " private
379. " public, system
508. Scientific travels
366.9 Secret societies
373. Seminaries, private
923.5 Servis, civil, biografy
286.3 Seventh day baptist
922.6 " " " biografy
289.8 Shakers
922.88 " biografy
653.09 Shorthand, history
326.9 Slavery, "
367.9 Social clubs
335.9 Socialist communities
267.2 Societies, religious, of men
366.9 " secret
027.2 Society libraries
923.5 Soldiers' lives
379. State education
027.5 " libraries
923.2 Statesmen's lives
31 Statistics
312. " of population
027.3 Subscription libraries
324. Suffrage
289.4 Swedenborgians
922.84 " biografy
284.7 Swedish church
922.4 " " biografy
724.7 Swiss architecture
923.7 Teachers' lives
607. Technical schools
207. Theologic schools
724.7 Timber architecture
027.4 Town libraries, public
91 Travel, description
508. " scientific
341.2 Treaties, texts and history
724.4 Tudor architecture
288. Unitarian church
922.81 " " biografy
289.1 Universalist church
922.81 " " biografy
378. Universities, history, reports, etc.
027.7 University libraries
724.4 Victorian Gothic architecture
371.4269 Vocational training
324. Voting
331.29 Wages
922.4 Waldenses biografy
553.70 Waters, mineral
940.4779 Welfare wk, Wld war, by cuntry
940.4778 " " " in "
376.9 Woman's education
267.432 Women's Christian associations
267.39 Y. M. C. A.
267.59 Y. W. C. A.
591.9 Zoology, geografic

Table 2 — Form divisions

The form distinctions 01, Philosofy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygrafy, Collectiv works; 09, History, can be used wherever needed if these numbers ar not alredy employd with other significations. They hav been printed in the full tables only where they seemd specially needed.

The following is an alfabetic list of these divisions, and the figures prefixt should be *added* to the number of the subject to be subdivided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06 Academies
06 Acts of societies
04 Addresses
06 Associations
02 Charts
08 Collected works
08 Collections
02 Compends
03 Concordances
03 Cyclopedias
03 Dictionaries
02 Digests
04 Discourses
04 Disputations
07 Education
03 Encyclopedias
04 Essays
06 Exhibitions
08 Extracts
09 History
04 Lectures
04 Letters
03 Lexicons
08 Libraries, collections, series
05 Magazines
02 Manuals
08 Maxims
01 Methods
08 Miscellanies
07 Museums
02 Outlines
04 Papers
05 Periodicals
01 Philosofy
08 Polygrafy
06 Reports of societies
05 Reviews
07 Schools
07 Seminaries
06 Societies
07 Study
01 Systems
07 Teaching
01 Theories
04 Tracts
07 Training schools
06 Transactions
08 Treatises
01 Utility

Table 3 — Languajes

The table below includes all individual languajes given a distinct number in the classification, but not some groups not yet subdivided (e. g. 497 North American Indians) nor some languajes named as part of a group which may be subdivided later.

Any languaj in this table may be subdivided like 420, English.

Any philolojic topic in the index may be transferd to another languaj by replacing the initial figures of the languaj, as found in this table, by those of the 2d languaj also found here; e. g. Syntax, English languaj, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A 3d way to subdivide the languaj is to prefix the languaj figures, as given in this table, to the philolojic numbers given in Table 4.

All 3 methods give the same result.

491.58 Afghani
439.36 Afrikaans
493.56 Agaou
494.813 Andhra
429. Anglo Saxon
495.92 Annamite
492.7 Arab'c
492.1 Aramaic
491.54 Armenian
491.68 Armorican
492.19 Assyrian
492.1 Assyro-Aramaic
491.52 Avestan, Zend
492.19 Babylonian
491.52 Bactrian, Old
499.223 Bali
491.591 Baluchi
491.68 Bas Breton
491.69 Basque
499.226 Batak
493.53 Bedja
491.44 Bengali

491.86 Bohemian
491.68 Breton, Bas
491.81 Bulgarian
494.23 Buriat
495.8 Burmese
449.9 Catalan
492.2 Chaldee
494.521 Cheremissian
495.1 Chinese
494.543 Chudic
493.2 Coptic
491.67 Cornish
491.83 Croatian
491.65 Cymric group
491.66 " or Welsh
491.86 Czech, Bohemian
439.81 Danish
493.55 Dankali
439.4 Deutsch, Platt
494.322 Djagataic
439.31 Dutch
499.227 Dyak
493.1 Egyptian, Old
491.48 Elu
42 English
427.01 " Old
491.61 Erse, Gadhelic group
491.63 " Gaelic
494.545 Esthonian
477.5 Etruscan
439.6 Faroese
494.541 Finnish
439.32 Flemish
499.212 Formosan
44 French
447.01 " Old
439.2 Frisian
491.61 Gadhelic group
491.63 Gaelic or Scotch
469.9 Galician
493.52 Galla
499.9621 Georgian
43 German
439.4 " Low, Plattdeutsch
439.1 " " Western Germanic languajes
437.02 " Middle High
437.01 " Old High
494.823 Gôndi
439.9 Gothic
48 Greek
489. " Modern
491.47 Gujerati
492.4 Hebrew
491.1 Hindu languajes
494.513 Hongro-ostiak
494.511 Hungarian
491.531 Huzwaresh
439.6 Icelandic
491.1 Indic group
491.3 " Middle
491.2 " Old
491.62 Irish
45 Italian
494.322 Jagataic
495.6 Japanese
499.222 Javanese
492.4 Jewish
494.22 Kalmuk
494.422 Kamassin
494.814 Kanarese
494.814 Kannada
494.542 Karélian
494.824 Khond
494.34 Kirghiz
494.816 Kodagu
495.2 Konanhoa
495.7 Korean
494.821 Kôta
494.824 Kou
494.544 Krévin
491.83 Kroatian
491.57 Kurdish
459.9 Ladin
494.12 Lamut
494.55 Lapp
47 Latin
499.9624 Lazistan
491.93 Lettish
491.92 Lithuanian
494.546 Livonian
439.31 Low Dutch
439.4 " German, Plattdeutsch
439.1 " " Western Germanic languajes
491.88 Lusatian
499.224 Maduran
494.511 Magyar
499.214 Malagasy
499.221 Malay
494.812 Malayalam
494.13 Manchu
491.64 Manx
491.46 Marathi
437.02 Middle High German
491.3 " Indic
499.9623 Mingrelian
489. Modern Greek
491.55 " Persian

494.21 Mongol, Eastern
491.871 Moravian
494.522 Mordvinian
499.11 Negrito
491.55 Neopersian
492.19 Nineveh cuneiform
494.33 Nogair
439.5 Norse languajes
439.6 Norse, Old
439.82 Norwegian
491.52 Old Bactrian
493.1 " Egyptian
427.01 " English
447.01 " French
437.01 " High German
491.2 " Indic
439.6 " Norse
491.51 " Persian
491.91 " Prussian
494.826 Orâon
491.45 Orissa
494.35 Osmanli
491.56 Ossetic
494.513 Ostiak, Hongro-
494.421 " Samoyed
491.3701 Pali
491.42 Panjabi
499.12 Papuan
491.532 Parsee
491.531 Pehlevi
492.5 Pentateuch, lang. of
494.531 Permian
491.55 Persian, Modern
491.51 " Old
492.6 Phenician
439.4 Plattdeutsch
491.89 Polabian
491.85 Polish
469. Portuguese
491.3 Prakrit
491.27 Prakrits, Primary
491.3 " Secondary
449. Provençal
491.91 Prussian, Old
491.58 Pushtu
494.825 Râdjmahal
459.9 Rhaeto-Romansch
459.9 Rheto-Romanic
459.9 Romansh
459. Rumanian
459.9 Rumansh
491.7 Russian
491.79 Russniak
491.79 Ruthenian
493.54 Saho
492.5 Samaritan
494.421 Samoyed ostiak
494.413 " Yenise'an
491.2 Sanskrit
429. Saxon, Anglo-
439.5 Scandinavian languajes
491.63 Scotch or Gaelic
491.82 Serbian
491.82 Serbo-Kroatian
495.91 Siamese
491.41 Sindi
491.48 Singhalese
491.872 Slovakian
491.84 Slovenian
493.51 Somali
491.88 Sorabian
491.88 Sorbian
46 Spanish
499.226 Sumatran
499.225 Sundanese
494.541 Suomi
499.9622 Svanetian
439.7 Swedish
492.3 Syriac
494.532 Syryenian
494.811 Tamil
494.412 Targhi
494.521 Tcheremissian
494.813 Telinga
494.813 Telugu
495.4 Tibetan
494.822 Toda
494.815 Tulu
494.815 Tuluva
494.11 Tungus
494.35 Turkish
494.323 Turkoman
494.321 Uigurian
491.45 Uriya
494.512 Vogul
494.533 Votiak
491.66 Welsh
491.88 Wendish
494.31 Yakut
494.413 Yeniseian
494.411 Yurak
491.52 Zend
494.532 Zyrenian

Table 4.—Philological Divisions.

All the languajes in Table 3 can be divided like 420, English, by adding the figures below: e.g.:

English orthography		421
Provençal	"	449.1
Arabic	"	492.71
Gaelic	"	491.631
Syntax of	English verbs	425.8
"	Modern Greek verbs	489.58
"	Danish "	439.8158
"	Armenian "	491.5458
Inflection of	English nouns	425.15
"	Anglo-Saxon nouns	429.515
"	Hebrew "	492.4515
"	Welsh "	491.66515

[illegible] Abbreviations.
[illegible] Ablaut.
16 Accent, pronunciation.
61 " prosody.
51 Accidence.
25 Accusative, etymology.
55 " syntax.
26 Adjectival forms, derivation.
516 Adjectives, inflection.
56 " syntax.
29 Adverbs, derivation.
59 " syntax.
22 Affixes, derivation.
11 Alphabet.
21 Analogy.
53 Analysis, grammar.
67 Antistrophe, prosody.
28 Aorist, etymology.
58 " syntax.
7 Archaisms.
709 Argot.
53 Arrangement of words and clauses.
56 Articles, syntax.
[illegible] Aspirates.
28 Augment, etymology.
83 Barbarisms.
83 Blunders.
25 Case endings, derivation.
55 Cases, syntax.
87 Chrestomathies.
53 Clauses, arrangement of.
516 Comparison, inflection.
26 Comparison, signs of, derivation.
54 Conditional sentences.
518 Conjugation.
29 Conjunctions, etymology.
59 " syntax.
28 Conjunctive mood, etymology.
58 " " syntax.
13 Consonants.
[illegible] Crasis.
25 Dative case, etymology.
55 " " syntax.
515 Declension of nouns.
2 Derivation of words.
7 Dialects.
3 Dictionaries.
25 Diminutives, derivation.
12 Diphthongs.
17 Diplomatics.
701 Early forms of language.
86 Elementary readers.
53 Ellipsis.
52 Enallage.
83 Errors of speech.
[illegible] Etymology, derivation.
51 " inflection.
89 Examination papers.
63 Feet, prosody.
64 Figures of prosody.
82 First lessons.
63 Foot, prosody.
24 Foreign elements.
25 Gender, etymology.
25 Genitive case, etymology.
55 " " syntax.
7 Glossaries, dialects.
3 " language.
83 Grammatical errors.
65 Hexameters.
64 Hiatus.
54 Hypothetical sentences.
31 Idioms.
[illegible] Individual authors, texts.
28 Infinitive mood, etymology.
58 " " syntax.
51 Inflection.
516 " of adjectives.
515 " " nouns.
517 " " pronouns.
518 " " verbs.
17 Inscriptions.
29 Interjections, etymology.
59 " syntax.
29 Interrogatives, etymology.
59 " syntax.
21 Laws of language.
1 Letters, alphabet.

3 Lexicography.
3 Lexicons.
17 Manuscripts
65 Meters, prosody.
28 Moods, signs of, derivation.
58 " syntax.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions. "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
[illegible] Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relativ pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
[illegible] School books and texts.
87 Selections, readers.
54 Sentences of particular form.
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
[illegible] Text books.
68 " " for writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

Table 5—Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to subdivide any of the languajes in the following table; and any division of English literature in the index referring to this table may be used in subdividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d languaj as given in this table.

Thus Ballads, English literature in the index ar 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads

This list does not include some languajes given in Table 3, becauz of small likelihood that there wil be corresponding literatures; but any languaj in that table may, if wisht, be given the regular literature treatment, except Anglo-Saxon, for which a special literature table is provided under 829.

891.58 Afghani
839.36 Afrikaans
892.8 Amharic
892.7 Arabic
892.1 Aramaic
891.54 Armenian
891.68 Armorican
892.19 Assyrian
891.52 Avestan, Zend
892.19 Babylonian
891.52 Bactrian, Old
891.591 Baluchi
891.68 Bas Breton
891.69 Basque
891.44 Bengali
891.86 Bohemian
891.68 Breton, Bas
891.81 Bulgarian
892.6 Carthaginian
849.9 Catalan
892.2 Chaldee
895.1 Chinese
893.2 Coptic
891.67 Cornish
891.83 Croatian
891.65 Cymric group
891.66 " or Welsh
839.81 Danish
839.4 Deutsch, Platt
839.31 Dutch
893.1 Egyptian, Old
82 English
891.61 Erse, Gadhelic group
891.63 " Gaelic
894.545 Esthonian
839.6 Faroese
894.541 Finnish
839.32 Flemish
84 French
839.2 Frisian
891.61 Gadhelic group
891.63 Gaelic or Scotch
869.9 Galician
891.9621 Georgian
83 German
839.9 Gothic
889. Greek, Modern
891.47 Gujerati
892.4 Hebrew
891.1 Hindu languajes
894.511 Hungarian
891.531 Huzwaresh
839.6 Icelandic
891.1 Indic group
891.62 Irish
85 Italian
895.6 Japanese
892.4 Jewish
894.22 Kalmuk
894.34 Kirghiz
895.7 Korean
891.83 Kroatian
891.57 Kurdish
859.9 Ladin
894.12 Lamut
891.93 Lettish
891.92 Lithuanian
894.546 Livonian
839.31 Low Dutch
894.511 Magyar
894.13 Manchu
891.64 Manx
891.46 Marathi
889. Modern Greek
891.55 " Persian
894.21 Mongol
891.871 Moravian
891.55 Neopersian
892.19 Nineveh cuneiform
839.5 Norse
839.6 " Old
839.82 Norwegian
891.52 Old Bactrian
893.1 " Egyptian

839.6	Old Norse
891.51	" Persian
891.91	" Prussian
894.826	Orâon
891.45	Orissa
894.35	Osmanli
891.56	Ossetic
891.42	Panjabi
891.531	Pehlevi
894.531	Permian
891.55	Persian, Modern
891.51	" Old
892.6	Phenician
839.4	Plattdeutsch
891.89	Polabian
891.85	Polish
869.	Portuguese
891.3	Prakrit
849.	Provençal
891.91	Prussian, Old
891.58	Pushtu
859.9	Rhaeto-Romansch
859.9	Rheto-Romanic
859.9	Romansh
859.	Rumanian
859.9	Rumansh
891.7	Russian
891.79	Russniak
891.79	Ruthenian
892.5	Samaritan
891.2	Sanskrit
839.5	Scandinavian literatures
891.63	Scotch or Gaelic
891.82	Serbian
891.82	Serbo-Kroatian
891.41	Sindhi
891.48	Singhalese
891.872	Slovakian
891.84	Slovenian
891.88	Sorabian
891.88	Sorbian
86	Spanish
839.7	Swedish
892.3	Syriac
894.811	Tamil
895.4	Tibetan
894.35	Turkish
891.45	Uriya
891.66	Welsh
891.88	Wendish
891.52	Zend

Biscoe time and Olin biografy book numbers

Biscoe time numbers This scheme provides for arranging books by years from 1000 B C–2000 A D. Each number consists of a single initial letter followd by figures, and these again, if necessary, by letters. Any year of the 19th century, in which the greater proportion of our books belong, is designated by a letter and single figure. For the 3 preceding centuries a letter and 2 figures are needed, only incunabula and ancient writings requiring a letter and 3 figures. Few characters are wasted for the period when few books were written, as A, B, and C cover the years to 1499 A D.

To D, E, F, which stand for centuries, 2 figures must be added, the number for a book publisht in 1652 being E52; in 1507, D07.

B, covering the first 10 centuries and C, covering 5 centuries, must be followd by 3 figures; thus a book issued in 1472 would be numberd C472.

Table of Biscoe numbers

A	B. C.	**J**	1830–1839	**S**	1920–1929
B	A. D. 1–999	**K**	1840–1849	**T**	1930–1939
C	1000–1499	**L**	1850–1859	**U**	1940–1949
D	1500–1599	**M**	1860–1869	**V**	1950–1959
E	1600–1699	**N**	1870–1879	**W**	1960–1969
F	1700–1799	**O**	1880–1889	**X**	1970–1979
G	1800–1809	**P**	1890–1899	**Y**	1980–1989
H	1810–1819	**Q**	1900–1909	**Z**	1990–1999
I	1820–1829	**R**	1910–1919		

American books take their numbers from the last copyright date; English and other foren books, from date of publication: e. g. Dana's *Text book of geology*, Phil. 1864, copyright '63 has as its booknumber M3; edition 2 of the same book publisht and copyrighted in 1874 is N4. Weller's *Portable atlas of physical geography*, London 1873, is N3.

A series or set takes its number from the first volume, even tho that may be lacking in the library set; e. g. *Popular science monthly*, v. 10-20, is M2, the date of v. 1 not of v. 10. When more than one volume in the same class calls for the same number, these numbers are differentiated by adding lower case letters; e. g. Bradbury & Emery's *Academic algebra*, Wells's *Short course in higher algebra* and Sensenig's *Numbers universalized*, all publisht in 1889 call for O9. Supposing them to come into the library in the above order, Bradbury would be O9; Wells, O9a; Sensenig, O9b. In a closely clast library additions to final subdivisions are seldom more than one a year. In the exceptional cases, use of a letter allows for 26 additions; the numbers are therefore neither long nor complicated.

If in dout, an approximate date may be used and corrected later when full information is acquired. Hunting down obscure dates consumes a

great deal of time and in the average library is not worth what it costs. L alone would mean a book publisht somewhere in the '50s of the 19th century, and F9 one of the last decade of the 18th (F09 being the mark for 1709). This occasional uncertainty is analogous to the case of anonymous and pseudonymous books in an author arrangement.

Dates B. C. may be treated in any one of the 3 ways suggested below. If numbers are given from date of writing or first publication there will be a few A books; but if from date of printing or copyright, none at all. Of the 3 ways below of treating dates B. C. the first is best:

1 Subtract the decade B. C. from 99 and use the resulting number, thus securing correct order with a shorter number than in 2. This approximate date is close enough, since exact year of writing is difficult to determin and the number of books in any subject in a single decade small.

Alternativs are:

2 Subtract the date B. C. from 1000 and use the resulting number, which will secure proper sequence.

3 Use actual B. C. date, since among so few books no great confusion would result from thus inverting the regular order.

Resulting numbers would then be:

Year B. C.	Complementary decade (1)	Complementary year (2)	Actual date (3)
999	Correct order A00	A001	Inverted order A999
563	A43	A437	A563
73	A92	A927	A73
45	A95	A955	A45

Olin book numbers The best means of separating collectiv from individual biografy is Olin book numbers. They are used exactly like Cutter author numbers; but as they translate all surnames of compilers into A followd immediately by figures, they precede the first Cutter number, Aa1 and thus automatically shelv biografic compilations before the cutterd individual lives; e. g. Strickland's *Queens of England* would be A84 (Olin number) and stand before a life of Queen Anne, An7 (Cutter number) whether clast 920 or 923.1.

See next page for table.

Table of Olin numbers

From *Library journal* 18:144

Name	Number	Name	Number	Name	Number	Name	Number
A	A11	Forr	A34	Lod	A56	Sch	A78
Ba	A12	Ga	A35	Ma	A57	Scr	A79
Bel	A13	Ges	A36	McT	A58	Sea	A81
Boy	A14	Goe	A37	Mat	A59	Sia	A82
Ca	A15	Grat	A38	Merr	A61	Sma	A83
Caro	A16	Ha	A39	Mo	A62	Squa	A84
Cel	A17	Hat	A41	Mos	A63	Sva	A85
Chim	A18	Hesi	A42	Na	A64	Ta	A86
Clar	A19	Hiu	A43	Nee	A65	Thau	A87
Coh	A21	Hov	A44	O	A66	To	A88
Coom	A22	I	A45	Pa	A67	Trum	A89
Cs	A23	Ja	A46	Per	A68	U	A91
Da	A24	Ji	A47	Ple	A69	V	A92
Day	A25	Ka	A48	Q	A71	Wa	A93
Dick	A26	Keno	A49	Ra	A72	Wats	A94
Doy	A27	Klu	A51	Rem	A73	Wha	A95
Ea	A28	La	A52	Rim	A74	Wit	A96
En	A29	Lann	A53	Rol	A75	X	A97
Fa	A31	Le	A54	Ru	A76	Y	A98
Fel	A32	Lind	A55	Sa	A77	Z	A99
Fit	A33						

If Cutter-Sanborn tables (in which vowels like consonants are followd by figures) are used, mark collected biografy with A followd by a shortend Cutter-Sanborn number for author or compiler, writing the initial letter of the Cutter-Sanborn number with a lower case letter; e. g. Strickland's *Lives of the queens of England*, the Cutter-Sanborn number for Strickland being S917, would be markt As9 or Johnston's *Leading American soldiers*, the number for Johnston being J73, would be Aj7.

Special author tables

Following tables from *Library notes* 2:16 and 3:440 illustrate special book-number tables for authors to whom individual clas numbers hav been assignd, so Cutter numbers would be useless duplication. By this method all material regarding author and his work is provided for under his special number, but *complete* table is *preferably* used only for authors on whom library is making a special collection (e. g. Shakspere, Dante and Goethe), in other cases material coming under A-C being clast in regular bibliografy and biografy numbers.

A-N ar common to all authors; O-Z ar assignd individually.

General skeme

A	Bibliografy. Authorship controversies
B	Biografy
C	Biografic collateral
D	Higher criticism
E	Minor criticism (textual)
F	Sources, allusions, lerning
G	Miscellany; concordances; societies etc.
H	Quotations, tales and plays from, adaptations, condensations etc.
I	Complete works without notes
J	" with "
K	" in translations

For living authors put works complete to date with I, J and K

L	Partial collections without notes
M	" with "
N	" in translations
O-Z	Individual works

822.33 Shakspere

A-N assignd as above

O	**Comedies**
O1	All's well that ends well
O3	As you like it
O5	Comedy of errors
O7	Love's labor lost
P1	Measure for measure
P3	Merchant of Venice
P5	Merry wives of Windsor
P7	Midsummer night's dream
Q1	Much ado about nothing
Q3	Taming of the shrew
Q5	Tempest
Q7	Twelfth night
R1	Two gentlemen of Verona
R3	Winter's tale
S	**Tragedies**
S1	Antony and Cleopatra
S3	Coriolanus
S5	Cymbeline
S7	Hamlet
T1	Julius Caesar
T3	King Lear
T5	Macbeth
T7	Othello
U1	Pericles
U3	Romeo and Juliet
U5	Timon of Athens
U7	Titus Andronicus

822.33 Shakspere (*concluded*)

V1	Troilus and Cressida
W	**Histories**
W1	Henry 4
W3	Henry 5
W5	Henry 6
W7	Henry 8
X1	King John
X3	Richard 2
X5	Richard 3
Y1	**Poems**
Y3	Venus and Adonis
Y5	Lucrece
Y7	Sonnets
Z	**Spurious works**

In table above only od numbers hav been assignd. These may very satisfactorily be used for text of plays, and the following even numbers for corresponding criticisms, e.g. S7 text of Hamlet, S8 criticism of Hamlet, criticisms of an individual work being shelvd with the work, not in D or E.

821.31 Spenser

O	Fairy queen
P	" book 1
Q	" " 2
R	" " 3
S	" " 4
T	" " 5
U	" " 6
V	Mutabilitie
W	Shepherd's calendar
X	Minor poems: Complaints
Y	" Other
Z	Prose
Z5	Letters

821.47 Milton

Dates following titles ar those of first publication

O	Paradise lost	1667
P	Translations	
Q	Criticisms	
R	Paradise regained	1671
S	Translations	
T	Criticisms	
U1	L'allegro	1632
U5	Il penseroso	1632
V1	Arcades	1633
V5	Comus	1634
W1	Lycidas	1637
W5	Samson Agonistes	1671
X1	Odes	
X2	Sonnets	
Y	Miscellaneous	

Tables for following authors ar also to be found in *Library notes*, Oct 1893, 3:438–50:

H:W. Longfellow	Alfred Tennyson
J:G. Whittier	Robert Browning
W:G. Simms	Walter Scott
Geoffrey Chaucer	Alexandre Dumas, the elder

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